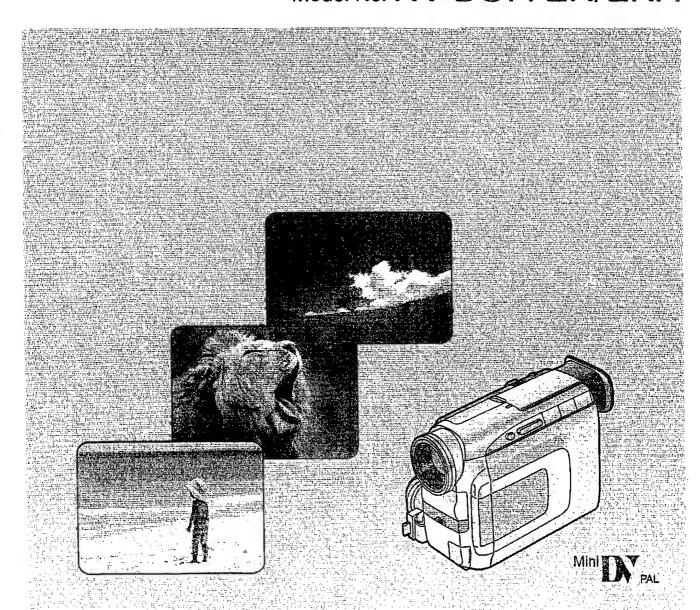
Digital Video Camera

NV-DS77EN/ENA

Operating Instructions

Model No. NV-DS77EN/ENA



Before use, please read these instructions completely. 使用前,請詳細閱讀本說明書。 VQT7637



您的安全信息

醫告

為了減少火災或觸電危險,以及噪音干擾,請只使用推薦的附件,且勿顧本機遭淋雨或受潮。勿拆卸外殼(或後蓋),内部沒有用戶可以維修的部件。請將維修工作委託給專業維修人員。

Biane egalione egalione

攝錄影機

額定銘牌位於攝錄影機的底側。

交流轉接器

- 額定銘牌位於交流轉接器的底側。
- 由於該設備在使用中會變熱,所以,請在通風 良好之處進行操作。且勿將該設備置於叠櫃或 類似之物品的封閉空間内。

豳 仔細閱讀使用説明書,並正確地使用攝錄影機。

Torra vyvetsimer et i 1804 meterole i 1804 meterole i 1804 i 1806 meterole i 1806 meterole i 1806 meterole i 1

如果未遵守本使用説明書所介紹的操作步驟進行操作, 則由此產生的故障或部件損壞將純屬用户的責任。

試拍攝錄影機。

對於拍攝內容的丢失,製造廠家將不予賠償。 對於因該攝錄影機,其附件或錄影帶的功能失常或損壞而造 成的拍攝失敗,製造廠家將不負責任何賠償。

對於拍攝内容的丢失,製造廠家將不予賠償。

對於因該攝錄影機,其附件或錄影帶的功能失常或損壞而造 成的拍攝失敗,製造廠家將不負責任何賠償。

小心遵守版權法。

對原像帶、影像盤,以及其它音像出版物或廣播節目進行私用目的以外的錄影時,可能會違犯版權法。即使為私用目的,某些節目的拍攝也可能會受到限制。

參看頁號

參看頁號用箭頭表示,例如:(→00)。

THEN BY BY

Information for Your Safety

WARNING

To reduce the risk of fire or shock hazard and annoying interference, use only the recommended accessories and do not expose this equipment to rain or moisture. Do not remove the cover (or back); there are no user serviceable parts inside. Refer servicing to qualified service personnel.

Movie Camera

 The rating plate is on the underside of the Movie Camera

AC Adaptor

- The rating plate is on the underside of the AC Adaptor.
- OAs this equipment gets hot during use, operate it in a well-ventilated place; do not install this equipment in a confined space such as a bookcase or similar unit.

■ Carefully read the Operating Instructions and use the Movie Camera correctly.

Injury or material damage resulting from any kind of use that is not in accordance with the operating procedures explained in these Operating Instructions are the sole responsibility of the user.

Try out the Movie Camera.

Be sure to try out the Movie Camera before recording your first important event and check that it records properly and functions correctly.

The manufacturer is not liable for loss of recorded contents.

The manufacturer shall in no event be liable for the loss of recordings due to malfunction or defect of this Movie Camera, its accessories or cassettes.

Carefully observe copyright laws.

Recording of pre-recorded tapes or discs or other published or broadcast material for purposes other than your own private use may infringe copyright laws. Even for the purpose of private use, recording of certain material may be restricted.

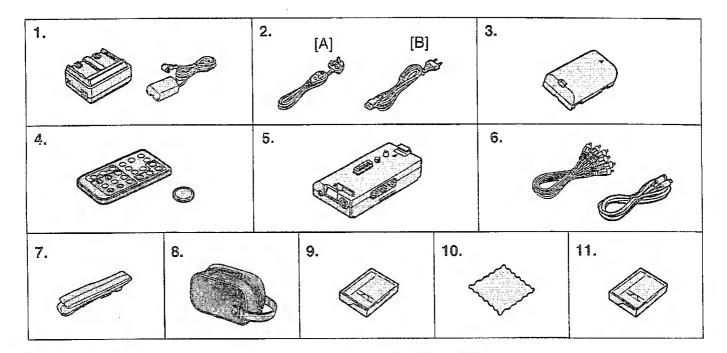
Pages for reference

Pages for reference are indicated with an arrow, for example: (>> 00)

ENGEST

Contents

	31	Recording in Special Situations	
Before Recording:		(Programme AE)	68
	e D	Recording with Special Effects (Digital Effects)	72
		■ Wipe Mode	76
Standard Accessories		Mix Mode	78
Controls and Components		Recording with Natural Colours (White Balance)	80
The 3 Types of Power Supplies		Adjusting the White Balance Manually	82
Supplying Power from an AC Mains Socket 19	6		
Supplying Power from the Cigarette Lighter		Focusing on the Subject Manually (Manual Focus)	84
Socket in a Car		Adjusting the Shutter Speed Manually	86
Supplying Power with the Battery 18	8	Adjusting the Iris (F Number) Manually	88
Inserting the Cassette	2	Adjusting the ins (Finance) Mandany	
■ LP Mode	4	Playing Back with Special Effects	90
Using the Finder	:6	(Playback Digital Effects)	92
Using the LCD Monitor	26	Wipe Function and twix Function	02
Handling the Lens Cap	28	Adding New Sound on a Recorded Cassette	94
Adjusting the Grip Belt	28	(Audio Dubbing)	98
Attaching the Shoulder Strap	28	Remote Controller	106
Alldoning the enterty		Inserting the Button-type Battery	108
		■ Using the Remote Controller	100
Basic Operations			
No. 10 To Carlotte Annual Control of Control	30	Editing	
Recording	30		ianas-qui
Checking If the Picture Is Recorded	32	Copying onto an S-VHS (VHS) Cassette	
(Recording Check)	JŁ	(Dubbing)	110
Recording Backlit Scenes	32	Using with Digital Video Equipment (Recording)	112
(Backlight Compensation)	32	Conving with the Help of an Editing Controller	114
Recording Yourself (Recording with	34	Using the Movie Camera with a Video Printer	118
the LCD Monitor Facing Forward,	JŦ	Using the Automatic Printing Function	
Enlarging Your Subject or Widening	36	(Autoprint)	120
the Recording Angle (200ming in Odd)	30	Using the Movie Camera with a Computer	124
Using the Movie Camera as a Digital Still Camera	38	Comig with	
(Photoshot)	40		
Recording in the Cinema Mode (Cinema Mode)	40	Notes, Others	
Recording with Minimised Camera Shake	42		
(Super Image Stabilizer)	42	d. M Canaan	126
Viewing the Just Recorded Scenes on	44	Using the Menu Screen	128
the Movie Camera (Playback)	44	Menu Functions	136
Adjusting the Sound Volume	44	Setting the Date and Time	140
Repeat Playback	77	Adjusting the LCD Monitor	142
Searching for a Scene That You Want to	46	Cautions for Use	146
Play Back	40	Condensation Romedy	. 148
Playing Back in Slow Motion	48	■ Video Head Clogging and Remedy	. 150
(Slow Motion Playback)	40	Optimum Use of the Battery	
Playing Back Still Pictures and Advancing Them		When the Charge Lamps on the AC Adaptor	, 150
One by One	50	Flash as Warning	
(Still Playback/Still Advance Playback)	30	Precautions for Storage	• • •
Playing Back on a TV		LCD Monitor/Finder/Shoe Adaptor/	. 154
(With the Output Terminal Box	52	Microphone Socket	•
[AV ONE TOUCH STATION] Attached)	52 54	Glossary	
After Use	54	■ Digital Video System	
		Focus	
Advanced Operations		White Balance Adjustment	
Advanced Uperations		Colour Temperature	
		Time Code	
Viewing Recorded Scenes During Recording		Indications on the LCD Monitor/in the Finder	
Pause (Camera Search)	56	Indications on the ECD workford the Filliage Andreas	
Searching for the End of the Recorded Part		Before Requesting Service (Problems & Solutions)	180
on a Cassette (Blank Search)	58	Optional Accessories	188
Searching for the Beginning of Recorded Scenes		Specifications	., 190
Marked with Index Signal (Index Search)	. 60	Specifications	
Fading In/Out	. 66		



標準附件

1.交流轉接器 (→ 16,18,138)
 給攝錄影機供電。
 給電池充電。

直流輸入纜線(→ 16)

將交流轉接器連接至攝錄影機。

- 2.交流主纜線(→16,18)
 - 將交流轉接器連接至交流主插座。 [A]僅限於香港 [B]香港以外地區
- 3.電池組(→ 18) 給攝錄影機供電。
- 4. 遥控器和鈕扣式電池 (→ 98 · 106)
- 5.輸出端子底座[AV ONE TOUCH STATION](→ 52 · 54 · 110)備有AV插座、編輯插座、數位靜畫端子耳機插孔和麥克 風插座。
- 6.AV 續線 (→ 52 · 112 · 114 · 116) S-Video 纜線 (→ 52 · 112 · 114 · 116 · 118 · 120)
- 7. 肩用背帶(→28)
- 8.軟包

當不用攝錄影機,或將其拿在手上外出時,請將其放在 該包中。

- 9.微型 DV 錄影帶 (→ 22)
- 10.清潔紙

用於清潔鏡頭和液晶顯示監視器。

11. 數位影像磁頭清潔帶(→148)

ENGLISH

Standard Accessories

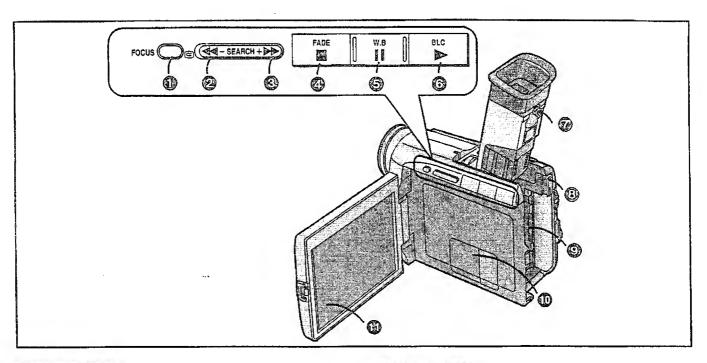
AC Adaptor (→ 16, 18, 138)
 To supply power to the Movie Camera.
 To charge the Battery.

DC Input Cable (→ 16)

To connect the AC Adaptor to the Movie Camera.

- 2. AC Mains Cable (→ 16, 18)
 To connect the AC Adaptor to an AC mains socket.
 [A] Hong Kong only
 [B] Area others Hong Kong
- 3. Battery Pack (→ 18)

 To supply the Movie Camera with power.
- 4. Remote Controller and Button-Type Battery (→ 98, 106)
- Output Terminal Box [AV ONE TOUCH STATION] (→ 52, 54, 110) Equipped with AV Sockets, Edit Socket, Digital Still Picture Terminal, Headphones Socket and Mic Socket.
- 6. AV Cable (→ 52, 112, 114, 116) S-Video Cable (→ 52, 112, 114, 116, 118, 120)
- 7. Shoulder Strap (→ 28)
- 8. Soft Bag
 When not using the Movie Camera or carrying it in the hand, store it in this bag.
- 9. Mini DV Cassette (→ 22)
- 10. Cleaning Tissue
 To clean the Lens and the LCD Monitor.
- 11. Digital Video Head Cleaner (→ 148)



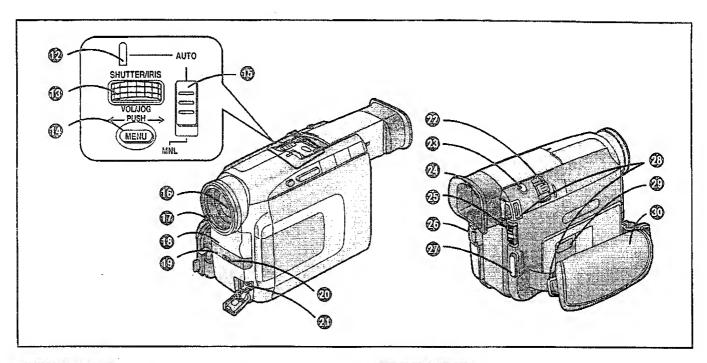
控制與組件

- ⑩ 聚焦鈕[FOCUS](→ 84)
- ② 反向尋影鈕[- SEARCH](→ 56) 倒帶/倒帶尋影鈕[◆◆](→ 46) 錄影檢查鈕[←](→ 32)
- ② 正向尋影鈕[SEARCH +](⇒ 56) 快進/快進尋影鈕[►►](⇒ 46)
- 淡化鈕[FADE](→ 66)
 停止鈕[図](→ 44)
- ⑤ 白色平衡鈕[W.B](→ 80·82) 暫停鈕[88](→ 50)
- ⑥ 逆光鈕[BLC](→ 32) 放影鈕[▶](→ 44,46)
- @ 目鏡校正柄(→ 26)
- 電池排出鈕[BATT.EJECT PUSH](→ 18)
- @ 電池室蓋
- ① 揚聲器 (→ 44)
- ⑥ 液晶顯示監視器 (→ 26)

ENGLISH

Controls and Components

- Focus Button [FOCUS] (→ 84)
- ② Reverse Search Button [- SEARCH] (→ 56) Rewind/Review Button [◄◄] (→ 46) Recording Check Button [□] (→ 32)
- Forward Search Button [SEARCH +] (→ 56)
 Fast Forward/Cue Button [▶▶] (→ 46)
- Fade Button [FADE] (→ 66)
 Stop Button [S] (→ 44)
- (5) White Balance Button [W.B] (→ 80, 82) Pause Button [1] (→ 50)
- Backlight Button [BLC] (→ 32)
 Play Button [▶] (→ 44, 46)
- **7** Eyepiece Corrector Lever (→ 26)
- Battery Eject Button [BATT. EJECT PUSH] (→ 18)
- Battery Holder
- Speaker (→ 44)
- (LCD Monitor (→ 26)



中 文

10 自動狀態燈

當您將狀態選擇開關設置在[AUTO](自動)時,該燈會亮起。

- ® 多功能[PUSH]環 (→ 44,46,86,88,126)

- ① 鏡頭
- ⑩ 鏡頭遮光罩 (→ 154)
- ⑩ 麥克風 (内藏,立體擊)
- ① 白色平衡感應器 (→ 162)
 遥控感應器 (→ 108)
- ⑩ 錄影燈(→30)
- 數位影像端子(i.LINK)[å](→ 112)

可輸入/輸出數位信號。

"i.LINK"為符合國際標準IEEE1394-1995之建接端的名稱。

- "å"為支持 "i.LINK"規格的產品上所標誌的符號。
- ② 變焦柄[W/T](→ 36,82)
- 函 拍照鈕[PHOTO SHOT](→38)
- ② 眼罩
- ② 用於攝錄影機狀態/電源關閉/錄放影機狀態的 選擇開關[POWER](→ 26,30,44,54)
- ② 液晶顯示監視器打開鈕[PUSH OPEN](→ 26)
- ② 錄影開始/停止鈕 (→ 30)
- ② 肩用背帶環 (→ 28)
- ② 磁帶室蓋窗口(→ 22)
- 面 扣抓皮帶 (→ 28)

ENGLISH

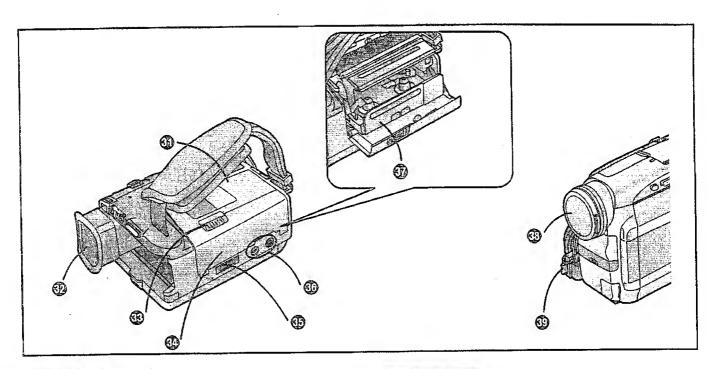
- Auto Mode Lamp This lamp lights when you set the Mode Selector Switch to [AUTO].
- Multi-Function [PUSH] Dial (→ 44, 46, 86, 88, 126)
- Menu Button [MENU] (→ 126)
- Mode Selector Switch [AUTO/MNL] (→ 80, 82, 84, 86)
- (1) Lens
- D Lens Hood (→ 154)
- (i) Microphone (built-in, stereo)
- White Balance Sensor (→ 162)
 Remote Control Sensor (→ 108)
- Recording Lamp (→ 30)
- ② DV Terminal (i.LINK) [%] (→ 112)

To input/output digital signals.

"i.LINK" is the name of the connector in accordance with the International Standard IEEE1394-1995.

"#" is the logo marked on products conforming with the "i.LINK" specifications.

- Zoom Lever [W/T] (→ 36, 82)
- ② Photoshot Button [PHOTO SHOT] (→ 38)
- 2 Eyecup
- Selector Switch for Camera Mode/Power Off/ VCR Mode [POWER] (→ 26, 30, 44, 54)
- ② LCD Monitor Open Button [PUSH OPEN] (→ 26)
- Recording Start/Stop Button (→ 30)
- Shoulder Strap Holders (→ 28)
- ② Cassette Compartment Window (→ 22)
- Grip Belt (→ 28)

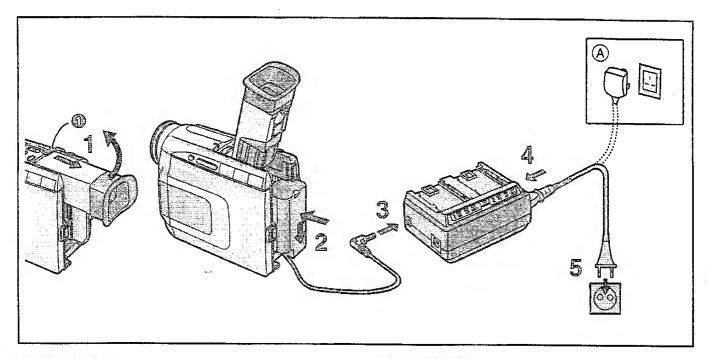


" 中 文 "

- ⑩ 上磁带室蓋(→22)
- ② 電子尋像器 (→ 26)
- ⑩ 下磁带室蓋 (→ 22)
- ③ 多用端子 (→ 52・54・110)
- 豆角架連接孔可將攝錄影機安裝在選購三角架上。
- ⑩ 磁带室蓋(→ 22)
- ⑩ 鏡頭蓋(→ 28,54,82)
- ④ 鏡頭蓋座

ENGLISH

- Upper Cassette Compartment Cover (→ 22)
- Finder (→ 26)
- Cassette Eject Lever [OPEN/EJECT] (→ 22, 54)
- Multi Terminal (→ 52, 54, 110)
- Tripod Receptacle
 To mount the Movie Camera on an optional tripod.
- Cassette Holder (→ 22)
- ① Lens Cap (→ 28, 54, 82)
- (1) Lens Cap Holder



中交中

三種電源

- 1) 交流轉接器(附件)由交流主插座供電。
- 2) 汽車電池充電器(選購品) 由點火器插座供電。
- 3) 電池 (附件) (→18)

圖 由交流主插座供電

- 1 將您的手指握住電子尋像器的突出邊緣
 ⑩,向後滑動電子尋像器,使其到達完全伸出位置,然後將其上傾。
 勿拉動眼罩來伸出電子尋像器。
- 2 如上圖所示,將直流輸入纜線的電池形連接端,插入攝錄影機的電池座,然後將其向下滑動,直至其咔嗒一聲鎖定到位。
- 3 直流輸入纜線的另一端,連接至交流轉接器。
- 4 將交流主纜線連接至交流轉接器。
- 5 將交流主纜線的另一端,連接至交流主插 座。
 - (A): 僅限於香港。
- 拔掉交流主纜線之前,應將攝錄影機上的[POWER](電源) 開關設置在[OFF]。
- ◆ 若攝錄影機已經使用了很長時間時,它會變熟。然而, 這屬正常現象。

國 由汽車點火器插座供電

使用與交流轉接器一起附帶的汽車轉接器纜線(VW-KA7E,選購品),可以在汽車內給攝錄影機供電,以進行 拍攝和放影。也可給攝錄影機的電池充電。

- 使用之後,須從點火器插孔上拔掉汽車轉接器纜線。
- ◆ 在連接汽車轉接器纜線之前,須起動汽車發動機,否則 熔斷器可能會燒壞。
- 也讀閱讀汽車轉接器續線所附帶的使用説明書。

ENGLISH

The 3 Types of Power Supplies

- AC Adaptor (supplied) to supply power from an AC mains socket
- Car Adaptor Cord (optional) to supply power from a Cigarette Lighter Socket
- 3) Battery (supplied) (→ 18)

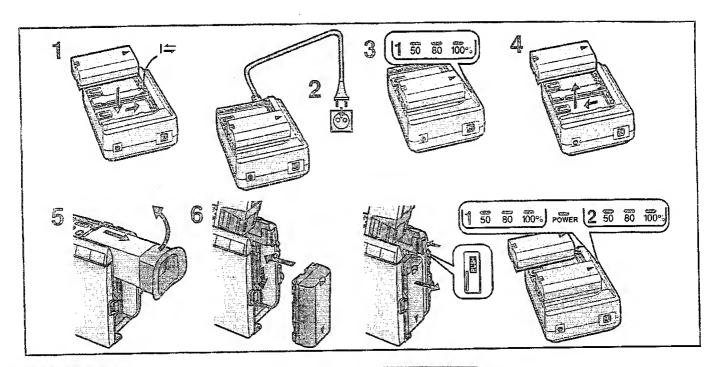
Supplying Power from an AC Mains Socket

- Hook your finger on the protruding edge to of the Finder, slide the Finder backward to its fully extended position and then tilt it upward.
- Do not pull on the Eyecup to extend the Finder.
- Insert the battery-shaped connector of the DC Input Cable as shown above into the Battery Holder on the Movie Camera and slide it downward until it locks with a click.
- Connect the other end of the DC Input
 Cable to the AC Adaptor.
- Connect the AC Mains Cable to the AC Adaptor.
- Connect the other end of the AC Mains Cable to an AC mains socket.
 - A: Hong Kong only
- •Before disconnecting the AC Mains Cable, set the [POWER] Switch on the Movie Camera to [OFF].
- If you use the Movie Camera for a long time, it becomes warm. However, this is normal.

Supplying Power from the Cigarette Lighter Socket in a Car

The use of the Car Adaptor Cord (VW-KA7E; optional) together with the AC Adaptor makes it possible to supply power to the Movie Camera in a car for recording and playback. It also allows charging the Movie Camera's Battery.

- After use, be sure to disconnect the Car Adaptor Cord from the Cigarette Lighter Socket.
- Be sure to start the car engine before you connect the Car Adaptor Cord, otherwise the fuse may blow.
- Also read the operating instructions of the Car Adaptor



或"· 支"

网 用電池供電

使用之前,請給電池充足電。

- 1 如上圖所示,將電池放在交流轉接器上, 然後水平滑動,直至其停止為止。
- 2 將交流主纜線連接至交流主插座。
- ③ 當交流轉接器上的所有三個充電燈都亮起時,説明充電已經結束。

充電腦的[50%]、[80%]和[100%]會閃爍,然後一個接 一個地保持亮起。

這些燈表示了充電所達到的大致狀況。

4 依上述步驟 1 的相反方向,滑動電池,將 其取出。

也可拔掉交流主纜線。

- 5 向後滑動電子尋像器,使其到達完全伸出 位置,然後將其向上傾斜。
- 6 將電池插入攝錄影機上的電池座,並向下 滑動,直至其咔嗒一聲鎖定到位。

從攝錄影機上取出電池時

一邊按住[BATT.EJECT PUSH](電池排出)鈕、將電池向上 滑動而取出。

- 小心勿意外摔落電池。
- 取出電池之前,請將[POWER]開闢設置在[OFF]。

充電兩節電池時

如果您將兩節電池裝入交流轉接器時,它們將被一個一個地 充電。

充電場,請依上進步驟 1—3 進行操作。

解從電池1開始充電。此時,電池2的充電燈將表示電池2的剩餘電量(若剩餘電量低於50%時,充電燈不會亮起)。

ENGLISH

- Supplying Power with the Battery Before use, fully charge the Battery.
- Place the Battery on the AC Adaptor as shown above and slide it horizontally until it stops.
- 2 Connect the AC Mains Cable to an AC mains socket.
- When all three Charge Lamps on the AC Adaptor are lit, charging is finished.
 The Charge Lamps [50%], [80%] and [100%] flash and then remain lit one after another.
 These lamps indicate the approximate charging condition reached.
- Remove the Battery by sliding it in the opposite direction of Step 1 above.

 Also disconnect the AC Mains Cable.
- Slide the Finder backward to its fully extended position and then tilt it upward.
- Insert the Battery into the Battery Holder on the Movie Camera and slide it downward until it locks with a click.

Removing the Battery from the Movie Camera

While pressing the [BATT.EJECT PUSH] Button, slide the Battery upward to remove it.

- Be careful not to drop the Battery by accident.
- e Before removing the Battery, set the [POWER] Switch to [OFF].

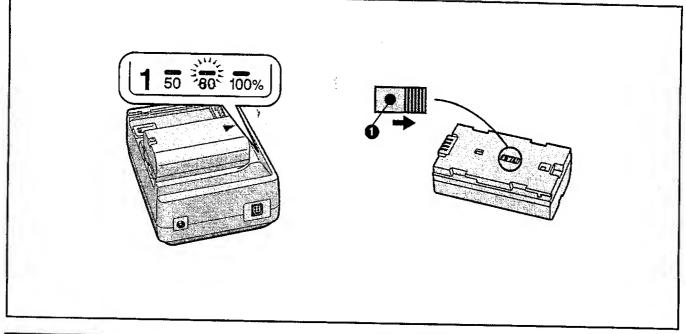
Charging Two Batteries

If you attach two Batteries to the AC Adaptor, they will be charged one after the other.

To charge, follow Steps 1-3 above.

Charging starts from Battery 1. At this time, the Charge Lamps for Battery 2 show the remaining charge in the Battery 2. (If the remaining charge is less than 50%, no Charge Lamp is lit.)

-18-



充電時間和最長連續拍攝時間

電池型號	充電時間	最長連續 拍攝時間
附件	60 分鐘	75 分鐘(60 分鐘)
CGR-D120	60 分鐘	75 分鐘(60 分鐘)
CGP-D210	110 分鐘	130 分鐘(105 分鐘)
CGR-D220	120 分鐘	160 分鐘(130 分鐘)
CGP-D320	195 分鐘	280 分鐘(220 分鐘)
CGR-D815	320 分鐘	540 分鐘(420 分鐘)

(上表所列時間為近似值。括號內的數字表示使用液晶顯示 監視器時的拍攝時間。)

上列供您參考的時間指在環境溫度20℃和相對濕度60%的條件下,進行連續拍攝的時間。當您在更高或更低的溫度下進行電池充電時,充電時間可能會延長。

- 在使用和充電中,電池可能會變熱。使用中,攝錄影機也會變熱。
- 當您不斷停止和重新開始拍攝時,每個電池的拍攝時間可能會短於上表所列。
- 如果您打算長時間不用電池時,請閱讀"存放注意事項"(→ 152)。

當充電燈閃爍報警時

若環境溫度過高或偏低時,交流轉接器上的充電燈會閃爍。 當電池或交流轉接器發生功能失常時,這些燈也會閃爍。具 體細節,請閱讀"當交流轉接器上充電燈閃爍報警時" (→150)

充電確認標記的利用

利用此標記,可簡單地區別已充電和已放電的電池。 例如,完成充電後,滑動該鈕,使紅點(●) **①** 可見。

ENGLISH

Charging Time and Maximum Time for Continuous Recording

Battery No.	Charging Time	Max. Continuous Recording Time
Supplied	60 min.	75 min. (60 min.)
CGR-D120	60 min.	75 min. (60 min.)
CGP-D210	110 min.	130 min. (105 min.)
CGR-D220	120 min.	160 min. (130 min.)
CGP-D320	195 min.	280 min. (220 min.)
CGR-D815	320 min.	540 min. (420 min.)

(The times shown in the above chart are approximations. The figures in parentheses show the recording time when using the LCD Monitor.)

The times listed above for your information indicate the duration of recording performed at an ambient temperature of 20°C and 60% relative humidity. The charging time may be longer when you charge the Battery at higher or lower temperature.

- During use and charging, the Battery becomes warm.
 The Movie Camera, too, becomes warm during use.
- When you repeatedly stop and restart recording, the recording time per Battery is shorter than listed above.
- If you do not use the Battery for a long time, please read "Precautions for Storage" (→ 152).

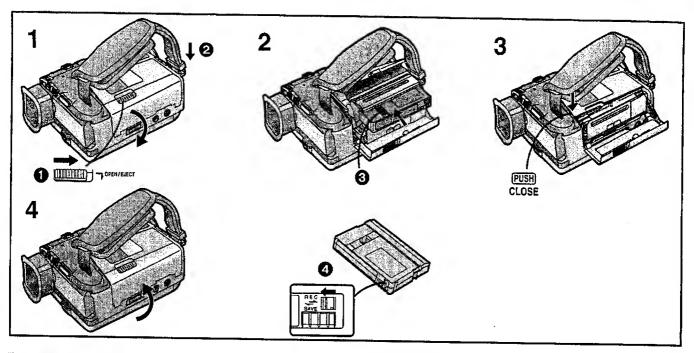
When the Charge Lamps Flash as Warning

If the ambient temperature is extremely low or extremely high, the Charge Lamps on the AC Adaptor flash. They also flash when some malfunction has occurred in the Battery or the AC Adaptor. For details, read "When the Charge Lamps on the AC Adaptor Flash as Warning" (→ 150).

Using the Charge Confirmation Marker

You can use this marker to easily distinguish between charged and discharged Batteries.

For example, slide the knob so that the red dot (•) 1 is visible after the charging is completed.



中 文

插入錄影帶

- 1 向右滑動[OPEN/EJECT](打開/排出)柄 ①,將下磁帶室蓋完全打開。 磁帶室蓋會滑出。
- 2 如上圖所示,插入錄影帶,使其窗口處於位置③。
- 3 按[PUSH CLOSE](按關)標誌,關閉上磁 帶室蓋。

磁帶座將與錄影帶一起滑回機內。確認磁帶座已完全收回。

4 關閉下磁帶室蓋。

- 安裝了電池或連接了交流轉接器時・不用打開攝錄影機,便可操作步驟1。
- 打開或關閉磁帶室蓋時,請依箭頭所示,下按扣抓皮帶的扣環②,以免其妨礙磁帶室蓋的打開和關閉。
- 插入錄影帶時,必須使其面朝正確方向,然後下按,直至其停止為止。
- 插入以前已拍攝的錄影帶時,利用攝錄影機尋影功能(→56),可尋影您打算繼續進行拍攝的位置。
- 插入新錄影帶時,請在開始拍攝之前,將錄影帶倒轉到頭。

防止意外抹消拍攝内容時

請打開錄影帶上的保險滑頭 4 (依[SAVE]箭頭所示,撥動滑頭),以保護拍攝內容。想重新進行拍攝時,請關閉保險滑頭(依[REC]箭頭所示,撥動滑頭)。

ENGLISH

Inserting the Cassette

- Slide the [OPEN/EJECT] Lever 1 to the right and open the Lower Cassette Compartment Cover completely.
- The Cassette Holder slides out.
- Insert the cassette with its window in position (3) shown above.
- Press on the [PUSH CLOSE] mark to close the Upper Cassette Compartment Cover.

 The Cassette Holder with the cassette slides back inside. Confirm that the Cassette Holder has retracted completely.
- 4 Close the Lower Cassette Compartment Cover.
- If the Battery is attached or the AC Adaptor connected, you can operate Step 1 even without turning on the Movie Camera.
- When opening or closing the Cassette Compartment, push down the buckle 2 of the Grip Belt in the direction of the arrow so it does not obstruct the opening and closing of the Cassette Compartment.
- When inserting the cassette, make sure it faces in the right direction and then push it in until it stops.
- When you Insert a cassette onto which you have recorded before, use the Camera Search Function
 (→ 56) to search for the position from which you want to continue recording.
- •When you insert a new cassette, rewind the tape to the beginning before starting to record.

Preventing Accidental Erasure of Recordings
Opening the cassette's erasure prevention slider (sliding it in the direction of the [SAVE] arrow) prevents recording. To record again, close the erasure prevention slider (slide it in the direction of the [REC] arrow).

如果磁帶室蓋未滑入時

- 按[PUSH CLOSE]標誌、牢靠地關閉上磁帶室蓋。
- 關閉攝錄影機,然後再次打開。
- 檢查電池是否已耗盡。

如果磁帶室蓋未滑出時

- 將下磁帶室蓋完全關緊,然後將其再次打開。
- 檢查電池是否已耗盡。

圖 LP 狀態

用[CAMERA MENU2]菜單上的[REC SPEED]項,可選擇需要的拍攝速度。(→ 130)

如果您選擇了LP 狀態時,可拍攝時間將為 SP 狀態的 1.5 倍。

以LP狀態拍攝時,將不會降低畫質。然而,播放的圖像可能含有斑紋狀雜波,且功能可能會受到限制。

- ◆ 在下列情況下,在播放的圖像中可能會出現斑紋狀雜 波,或圖像無法得到正確地播放。
 - 當在其它數位影像設備上播放在LP狀態下、用該攝錄影機拍攝的錄影帶時:
 - 當在該攝錄影機上播放在 LP 狀態下、用其它數位影像設備錄製的錄影帶時;
 - 當在不具備LP狀態的其它數位影像設備上播放在LP 狀態下、用該攝錄影機拍攝的錄影帶時;
 - · 在慢動作或靜止步進狀態時: (→ 48,50)
 - · 當使用攝錄影機轉影功能時。(→ 56)
- 由於LP狀態下的拍攝磁跡寬度比磁頭寬度窄,所以,將 無法在已拍攝的錄影帶上錄製新的聲音(音頻拷貝)(→94)。

ENGLISH

If the Cassette Holder Does Not Slide Back inside

- Press on the [PUSH CLOSE] mark and close the Upper Cassette Compartment Cover securely.
- Turn the Movie Camera off and then on again.
- Check if the Battery is discharged.

If the Cassette Holder Does Not Slide Out

- Close the Lower Cassette Compartment Cover completely and then open it again.
- Check if the Battery is discharged.

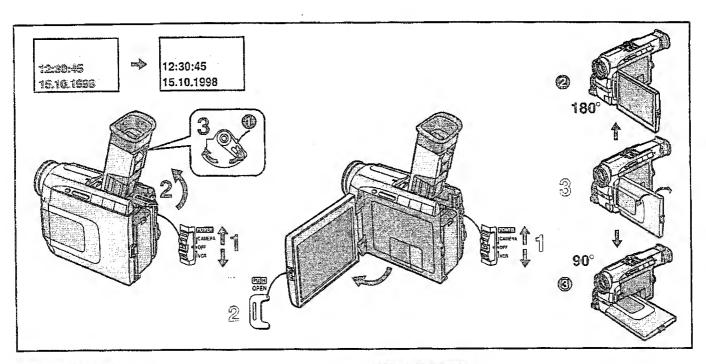
M LP Mode

The desired recording speed can be selected with [REC SPEED] on the [CAMERA MENU2] Menu. (→ 130)

If you select the LP Mode, the possible recording time is 1.5 times as long as in the SP Mode.

Recording in the LP mode does not deteriorate the picture quality. However, the playback picture may contain mosaic-like patterns and certain functions may be restricted.

- •In the following cases, mosaic-like patterns may appear in the playback picture, or the picture may not be played back correctly:
 - When a cassette recorded in the LP Mode on this Movie Camera is played back on other digital video equipment.
 - When a cassette recorded in the LP Mode on other digital video equipment is played back on this Movie Camera.
 - When a cassette recorded in the LP Mode on this Movie Camera is played back on digital video equipment not featuring the LP Mode.
 - In the Slow Motion or Still Advance Playback Mode.
 (→ 48, 50)
 - When using the Camera Search Function. (→ 56)
- ◆As the recording track width in the LP Mode is smaller than the head width, recording new sound onto an already recorded cassette (audio dubbing) (→ 94) is not possible.



中 文

使用電子尋像器

使用電子尋像器之前,請將其調節至您的視力,以使電子等 像器中的指示清晰易辨。

1 將[POWER]開關設置在[CAMERA](攝錄 影機)或[VCR](錄放影機)。

邊按住中心鈕·一邊將該開關滑至[CAMERA]或[VCR]。

2 將電子尋像器向後滑到底,然後使其向上傾斜。

勿拉動眼罩來伸出電子尋像器。 電子轉像器約可最多向上傾斜75°。

3 旋轉目鏡校正柄 4 進行調節。

用[CAMERA MENU3]菜單 (→ 132) 或[VCR MENU2] 菜單 (→ 134) 上的項目[LCD/EVF SET],也可調節電子尋像器的亮度。

使用液晶顯示監視器

您可一邊觀看打開的液晶顯示監視器上的國像,一邊進行拍 攝。

將[POWER]開關設置在[CAMERA]或 [VCR]。

-邊按住中心鈕·一邊將該開關滑至[CAMERA]或[VCR]。

你 術頭所示,按[PUSH OPEN](彈開) 鈕,將液晶顯示監視器向外旋轉約90°。 電子等象器會關閉。

調節角度時

- 意 請根據拍攝狀況,調節液晶顯示監視器的 角度。
 - 液品顯示監視器最多可從其普通的垂直位置,向上旋轉 180°
 和向下旋轉 90°
 右級強用力將其旋轉超出此範圍時,可能會嚴重損壞獨緣影機。
 - 用[CAMERA MENU3]菜單 (→ 132) 或[VCR MENU2]菜單 (→ 134) 止的項目[LCD/EVF SET] ·
 也可調節液晶顯示監視器的色彩飽和度和亮度。

關閉液晶顯示監視器時

뤯謝液晶顯示點視器,直至[PUSH OPEN]鈕咔嗒一聲鎖定 到位。

ENGLISH -

Using the Finder

Before using the Finder, adjust it to your eyesight so that the indications in the Finder are clear and easy to read.

Set the [POWER] Switch to [CAMERA] or [VCR].

While pressing the centre button, slide the switch to [CAMERA] or [VCR].

Slide the Finder backward completely and then tilt it upward.

Do not pull on the Eyecup to extend the Finder. The Finder can be tilted upward by up to approximately 75°.

Adjust by turning the Eyepiece Corrector Lever 6.

It is also possible to adjust the brightness of the Finder with the item [LCD/EVF SET] on the [CAMERA MENU3] Menu (>> 132) or [VCR MENU2] Menu (>> 134).

Using the LCD Monitor

You can also record while viewing the picture on the opened LCD Monitor.

Set the [POWER] Switch to [CAMERA] or [VCR].

White pressing the centre button, slide the switch to [CAMERA] or [VCR].

Press the [PUSH OPEN] Button and turn out the LCD Monitor by approximately 90° in the direction of the arrow.

The Finder turns off.

Adjusting the Angle

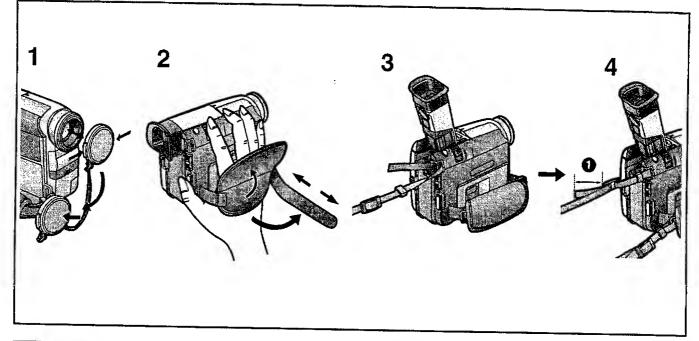
3 Adjust the angle of the LCD Monitor according to the recording angle.

- The LCD Monitor rotates upward a maximum of 180° and downward by a maximum of 90° from its normal vertical position. Trying to forcefully rotate it beyond this range could seriously damage the Movie Camera.
- It is also possible to adjust the colour saturation and brightness of the LCD Monitor with the item [LCD/EVF SET] on the [CAMERA MENU3] Menu
 (→ 132) or [VCR MENU2] Menu
 (→ 134).

Closing the LCD Monitor

Push the LCD Monitor close until the [PUSH OPEN]

-26- Button locks with a click.



鏡頭蓋處理

開始拍攝之前,請取下鏡頭蓋。

1 您可將取下的鏡頭蓋,掛在扣抓皮帶上。 不實際拍攝時,請將鏡頭蓋裝在鏡頭上,以保護鏡頭。

扣抓皮帶調整

您可調整扣抓皮帶,使其與自己手的尺寸保持一致。

2 打開扣抓皮帶蓋,調整扣抓皮帶的長度。

安裝肩用背帶

在您外出拍攝之前,建議您裝上層用背帶,以防攝錄影機意外失落。

- 3 將肩用背帶的一端,穿過攝錄影機的肩用 背帶環。
- 4 將肩用背帶的一端反折起來,然後將其穿 過肩用背帶長度調節器。

將其拉出肩用背帶長度調節器之外約2釐米 ●,使其不至於滑脱。

ENGLISH

Handling the Lens Cap

Before you start recording, remove the Lens Cap.

You can attach the removed Lens Cap to the Grip Belt.
When not actually recording, always attach the Lens Cap to the Lens to protect it.

Adjusting the Grip Belt

You can adjust the Grip Belt to the size of your hand.

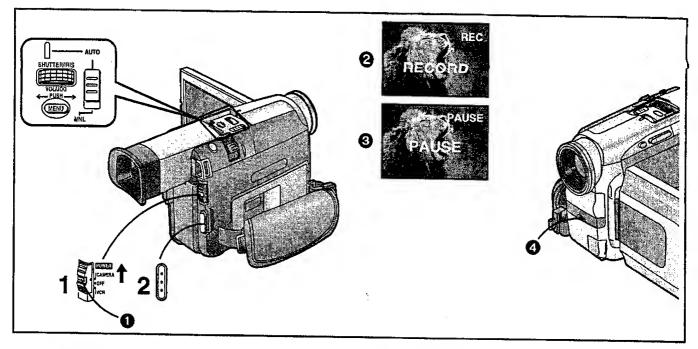
2 Open the Grip Belt Cover and adjust the length of the Grip Belt.

Attaching the Shoulder Strap

Before you go recording outside, we recommend that you attach the Shoulder Strap to prevent the Movie Camera from dropping accidentally.

- 3 Pull the end of the Shoulder Strap through the Shoulder Strap Holder on the Movie Camera.
- Fold the end of the Shoulder Strap back, pull it first through the loop and then the Shoulder Strap Length Adjuster.

 Pull it out more than 2 cm from the Shoulder Strap Length Adjuster so that it cannot slip off.



拍攝

將[POWER]開關設置在[CAMERA](攝錄影機) 和將[狀態選擇]開關設置在[AUTO](自動) 時,按啟動/停止鈕,便可簡單地開始拍攝。在此情況下,攝錄影機將自動調節聚焦和白色平衡。

- 根據光源和拍攝條件,有時可能無法正確地進行自動聚 焦和白色平衡調節。在此情況下,請手動進行調節。 (聚焦: →84)(白色平衡: →80.82)
- 1 將[POWER]開關設置在[CAMERA]。
 一邊按住中心鈕❶,一邊將該開關滑至[CAMERA]。
- 2 按啟動/停止鈕。

即開始拍攝。 [RECORD]指示燈會短暫出現,然後變為[REC]。 2

暫停拍攝時:

再次按啟動/停止鈕。 會出現[PAUSE](暫停) 指示。 ❸

結束拍攝時:

將[POWER]開關設置在[OFF]。

將該開關滑至[OFF]時,不必按住中心鈕。

 如果您讓攝錄影機處於拍攝暫停狀態超過6分鐘時,本 機將自動關閉,以保護錄影帶和節省電池電源。從此狀 態下恢復拍攝時,請將[POWER]開關設置在[OFF],然 後再次設置在[CAMERA]。

錄影燈

在拍攝中,錄影燈會亮起 4,以便讓攝錄影機前面的人知 道正在進行拍攝。

如果您將[CAMERA MENU3]菜單上的[REC LAMP](錄影燈) 設定在[OFF]時,錄影燈則不會亮起。

ENGLISH

Recording

After setting the [POWER] Switch to [CAMERA] and the Mode Selector Switch to [AUTO], you can simply press the Start/Stop Button to start recording. In this case, the Movie Camera adjusts the focus and white balance fully automatically.

 Depending on the light source and recording situation, correct automatic focusing and white balance adjustment may not be possible. In such cases, adjust them manually.

Focus: (→ 84); White Balance: (→ 80, 82)

- 1 Set the [POWER] Switch to [CAMERA].
 While pressing the centre button ①, slide the switch to [CAMERA].
- Press the Start/Stop Button.
 Recording starts.
 The [RECORD] Indication appears briefly and then changes to [REC].

To pause recording:

Press the Start/Stop Button again.
The [PAUSE] Indication appears. 3

To finish recording:

Set the [POWER] Switch to [OFF].

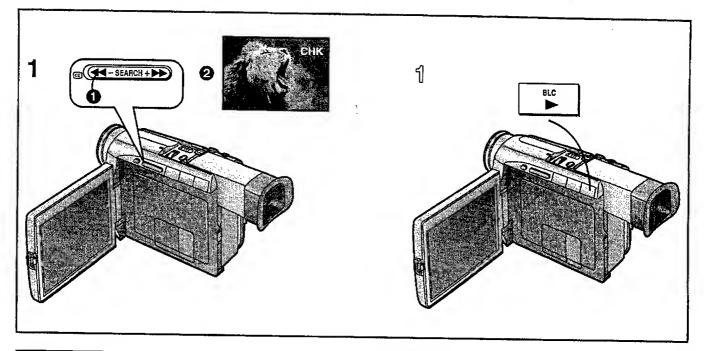
It is not necessary to press the centre button in order to slide the switch to [OFF].

•If you leave the Movie Camera in the Recording Pause Mode for more than 6 minutes, it automatically switches off to protect the tape and to conserve battery power. To resume recording from this condition, set the [POWER] Switch to [OFF] and then to [CAMERA] again.

Recording Lamp (Tally Lamp)

The Recording Lamp lights 4 during recording to let the people in front of the Movie Camera know that recording is being performed.

If you set [REC LAMP] on the [CAMERA MENU3] Menu to [OFF], the Recording Lamp does not light.



檢查已拍攝的圖像(拍攝檢查)

可在拍攝暫停狀態下,播放上次拍攝的最後幾秒鐘場景。

1 在拍攝暫停狀態下,輕按錄影檢查鈕[G] ① 。

將出現[CHK] (檢查) 指示 ②。 檢查之後,攝錄影機將恢復拍攝暫停狀態。

檢查拍攝狀況時,須讓攝錄影機處於拍攝所用相同的狀態(SP或LP)。否則,播放的圖像將會失真。

拍攝逆光場景(逆光補償)

只要您按住該鈕,逆光將得到補償,目標物將被拍得更亮。 (逆光意思為光線從背面落在目標物上,比如位於光源和攝錄影機之間的目標物。)

∄ 按住逆光鈕[BLC]。

只要您按住該鈕,逆光將得到補償,目標物將被拍得更亮。 (圖像會整體變亮。)

恢復普通拍攝時

鬆開逆光鈕[BLC]。

ENGLISH

Checking If the Picture Is Recorded (Recording Check)

To play back the final few seconds of the last recorded scene in the Recording Pause Mode.

1 Press the Recording Check Button [to briefly in the Recording Pause Mode.

The [CHK] Indication ② appears.

After checking, the Movie Camera returns to the Recording Pause Mode.

• For Recording Check, the Movie Camera must be in the same mode (SP or LP) as used for recording, otherwise the playback picture is distorted.

Recording Backlit Scenes (Backlight Compensation)

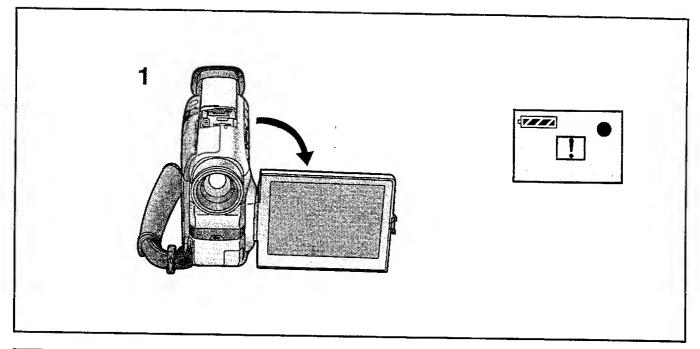
To prevent the backlit subject from being recorded very dark.

(Backlight means that the light falls on the subject from behind, i.e. the subject is between the light source and the Movie Camera.)

1 Keep the Backlight Button [BLC] pressed.

The backlight is being compensated as long as you keep the Button pressed, and the subject is recorded more brightly. (The picture brightens up as a whole.)

Returning to Normal Recording Release the Backlight Button [BLC].



自拍 (將液晶顯示監視器朝外進行攝影)

該功能可以一邊觀看液晶顯示監視器中的圖像,一邊進行自拍,或向攝錄影機前面的人表示正在拍攝的圖像。

1 打開液晶顯示監視器,進行轉動,使其朝前(鏡頭側)。

打開液晶顯示監視器時,會自動關閉電子轉像器。然而,當您將液晶顯示監視器朝前時,圖像也會出現在電子尋像器中。拍攝中,站在攝錄影機前面的人可檢查液晶顯示監視器上的圖像,而您可瞄準攝錄影機,並觀看電子尋像器中的圖像。

鏡面狀態

如果您將[CAMERA MENU3]菜單上的[SELFSHOOT] (自拍)設定為[MIRROR](鏡面)時,液晶顯示監視器上表示的圖像會反轉,如鏡面圖像一般。在液晶顯示監視器朝外的情況下進行自拍時,正在拍攝的圖像可能看起來不適應。(→132) 我們一般都在鏡子中觀看自身,儘管看見的圖像實際上左右顛倒,但是因為我們已經習慣,所以感覺更自然。該攝錄影機具備鏡面狀態,可以將畫面顯示為鏡面圖像。

然而,即使您已經選擇了鏡面狀態,也將以一般的方式拍攝 圖像。

◆ 在鏡面狀態下,僅會出現下列指示:

● : 拍攝

● ■ : 拍攝暫停狀態 ・ 到餘電池電量

當出現一般警告/報警指示[1]時,請後轉液晶顯示監視器, 使您能確認實際的警告/報警指示。

ENGLISH

Recording Yourself

(Recording with the LCD Monitor Facing Forward)

This makes it possible to record yourself while viewing the picture on the LCD Monitor or to show the persons in front of the Movie Camera the picture being recorded.

1 Open the LCD Monitor and turn it so that it faces forward (lens side).

Opening the LCD Monitor automatically turns off the Finder. However, when you turn the LCD Monitor forward, the picture also appears in the Finder. This lets you aim the Movie Camera and view the picture in the Finder, while the persons in front of the Movie Camera can check the picture on the LCD Monitor during recording.

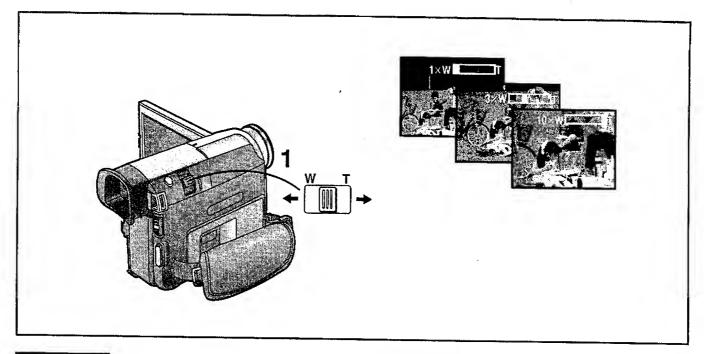
Mirror Mode

If you set [SELFSHOOT] on the [CAMERA MENU3] Menu to [MIRROR], the picture displayed on the LCD Monitor is reversed liked a mirror-image. When recording yourself with the LCD Monitor facing forward, the picture as it is being recorded might look unusual. (→ 132) We usually look at ourselves in the mirror and, although the image we see there is actually reversed right and left, it feels more natural because we are used to it. This Movie Camera features the Mirror Mode which displays the picture as a mirror-image.

However, even if you have selected the Mirror Mode, the picture is recorded in the normal way.

- In the Mirror Mode, only the following indications are displayed.
 - Recording
 - ●II: Recording Pause
 - Remaining Battery Power

When the General Warning/Alarm Indication []] appears, turn the LCD Monitor backward so that you can confirm the actual Warning/Alarm Indication.



放大目標物或加寬拍攝角度 (拉近/拉遠)

拍攝拉近的目標物和廣角鏡頭,可為您的影像的增添特殊效果。

- 1 拍攝更廣的視角(拉遠)時: 朝[W]方向按[W/T]變焦柄。 放大目標物(拉近)時: 朝[T]方向按[W/T]變焦柄。
 - 變焦放大指示將出現幾秒鐘。
 - 越用力朝[W]或[T]方向按[W/T]變焦柄,變焦速度將 變得越快。
 - 拍攝中,變焦速度將慢於拍攝暫停下的速度。

想更加放大目標物時(數位變焦)

如果您將[CAMERA MENU1]菜單上的[EFFECT1](效果 1) 設定為[② &ZOOM]或[ZOOM]時,可進一步放大目標物 (→ 128)。[D.ZOOM](數位變焦)指示會出現。

- 20 ×: 可數位拉近至最大 20 倍。
- 100 ×: 可數位拉近至最大 100 倍。
- 進行光學變焦時,最大可達 10 倍。
- 數位變焦放大率越大,畫質將越差。
- 有關[CAMERA MENU1]菜單上的[D.ZOOM]項,您可選 擇[20×]或[100×]作為最大變焦放大率。

小目標物的超拉近鏡頭拍攝(微距拉近功能)

當變焦放大率為 1 倍時,在鏡頭和目標物之間,攝錄影機能夠對目標物進行聚焦的距離將縮短為約 30 毫米。這樣便可拍攝昆蟲之類的極小目標物是非常管用的。

■ 當您已經變焦為長焦設定時,只有離開目標物1.2公尺以上,才能進行精確地聚焦。

ENGLISH

Enlarging Your Subject or Widening the Recording Angle (Zooming In/Out)

Recording close-ups of your subjects and recording wideangle shots add special effects to your videos.

- To record a wider view (Zooming-out):
 Push the [W/T] Zoom Lever toward [W].
 To enlarge your subject (Zooming-in):
 Push the [W/T] Zoom Lever toward [T].
 - The Zoom Magnification Indication appears for a few seconds.
 - The farther you push the [W/T] Zoom Lever toward [W] or [T], the faster the zooming speed becomes.
 - During recording, the zooming speed is lower than during recording pause.

Enlarging Your Subjects Even More (Digital Zooming)

If you set [EFFECT1] on the [CAMERA MENU1] Menu to [② & ZOOM] or [ZOOM], it is possible to further enlarge the subject. (→ 128)

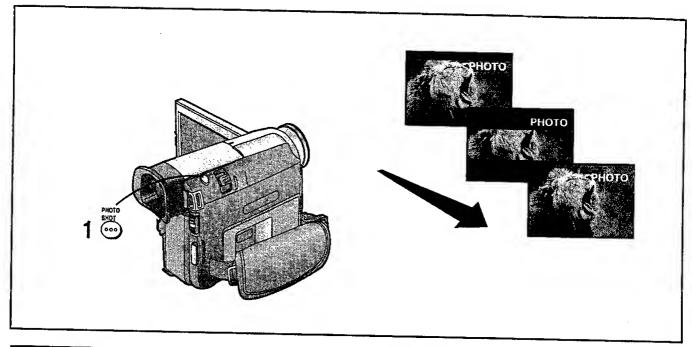
The [D.ZOOM] Indication appears.

- ●20×: Digital zooming up to 20×.
- ●100×: Digital zooming up to 100×.
- Up to 10×, the zooming is done optically.
- The higher the Digital Zoom Magnification is, the lower is the picture quality.
- For the item [D.ZOOM] on the [CAMERA MENU1]
 Menu, you can select either [20×] or [100×] as the maximum zoom magnification.

Recording Extra Close-up Shots of Small Subjects (Macro Close-up Function)

When the zoom magnification is 1×, the Movie Camera can focus on subjects down to a distance of approximately 30 mm between lens and subject. This allows recording very small subjects such as insects.

 When you have zoomed to the tele setting, precise focusing is only possible on subjects no closer than 1.2 metres.



將攝錄影機用作數位靜畫攝錄影 機 (拍照)

使用該功能,可拍攝每幀約7秒鐘,且帶有配音的靜止圖

該功能很便於拍攝打算在影像打印機上進行打印的圖像等。

1 按[PHOTO SHOT](拍照)鈕(拍攝中也可 使用該功能)。

攝錄影機將拍攝約7秒鐘的靜止圖像,然後切換至拍攝 暫停狀態。

- 如果您將[CAMERA MENU2]菜單上的[SHTR EFFECT](快門效果) 設置在[ON]時,屏幕會短暫閃 爍,且當您按[PHOTO SHOT]鈕時,會聽見模擬的 快門咔嗒聲。
- 利用在拍照狀態下拍攝的靜止圖像,可進行下列操 作:
 - 索引尋影 (→ 60・62) (然而,不能進行錄影帶開頭拍攝圖像的尋影。) ● 自動打印 (→ 120)
- ◆ 在開始拍攝靜止圖像後,可能會延遲一會兒才能看見 視覺快門效果和發出咔嗒聲。
- 畫質將稍為降低。

連續拍照

如果您將[CAMERA MENU2]菜單上的[SHTR EFFECT]設置 在[ON],並按住[PHOTO SHOT]鈕(不管是在拍攝暫停狀態 或在拍攝中),攝錄影機都將自動以大致 0.7 秒的間隔,建 續拍攝圖像。

- 在您鬆開[PHOTO SHOT]鈕後,可能還會拍攝一張靜止 圖像。
- 在連續拍照狀態下所拍攝的靜止團像,將不會帶有拍照 索引信號。因此無法用拍照索引尋影功能進行定位和用 自動打印功能進行打印。

ENGLISH

Using the Movie Camera as a Digital Still Camera (Photoshot)

With this function, you can record still pictures with sound for approximately 7 seconds each.

This function is convenient for example for pictures that you want to print on a Video Printer.

Press the [PHOTO SHOT] Button. (This function can be used during recording. too.)

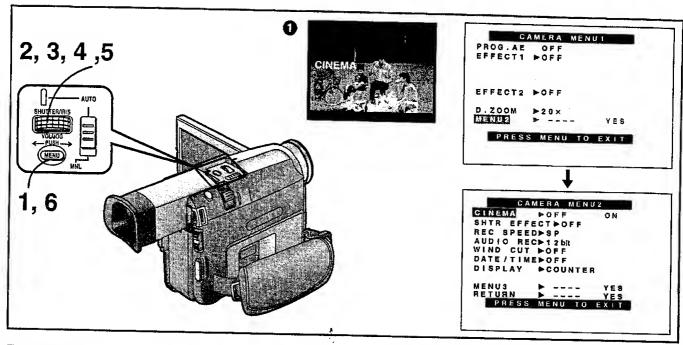
The Movie Camera records a still picture for approximately 7 seconds and then switches over to the Recording Pause Mode.

- If you set [SHTR EFFECT] on the [CAMERA MENU2] Menu to [ON], the screen blinks briefly and a simulated shutter click sound can be heard when you press the [PHOTO SHOT] Button. This audiovisual effect is also recorded.
- With the still pictures that you have recorded in the Photoshot Mode, you can do the following:
 - index Search (→ 60, 62)
 - (However, searching for the picture(s) recorded at the beginning of the tape may not be possible.)
 - Automatic printing (→ 120)
- The visual shutter effect and click sound may occur with slight delay after recording of the still picture has started.
- The picture quality deteriorates slightly.

Continuous Photoshot

If you set [SHTR EFFECT] on the [CAMERA MENU2] Menu to [ON] and keep the [PHOTO SHOT] Button pressed (either in the Recording Pause Mode or during recording), the Movie Camera automatically records still pictures successively at intervals of approximately 0.7 second until you release the button.

- One more still picture may be recorded after you release the [PHOTO SHOT] Button.
- As the still pictures recorded in the Continuous Photoshot Mode are not marked with photoshot index signals, they cannot be located by using the Photoshot Index Search Function and printed with the Auto Print Function.



用電影狀態拍攝(電影狀態)

該狀態可讓您用電影一般的寬屏幕格式進行拍攝。

- 1 按[MENU](菜單) 鈕。 會出現[CAMERA MENU1]菜單。
- 2 轉動[PUSH]環,選擇[MENU2]。
- 3 按[PUSH]環,選擇[YES](是)。 會出現[CAMERA MENU2]菜單。
- 4 轉動[PUSH]環,選擇[CINEMA](電影)。
- 5 按[PUSH]環,選擇[ON]。 屏幕上下會出現黑色條帶。
- 6 按[MENU]鈕,推出菜單。

取消電影狀態時

將[CAMERA MENU2]菜單上的[CINEMA]設置在[OFF]。

ENGLISH

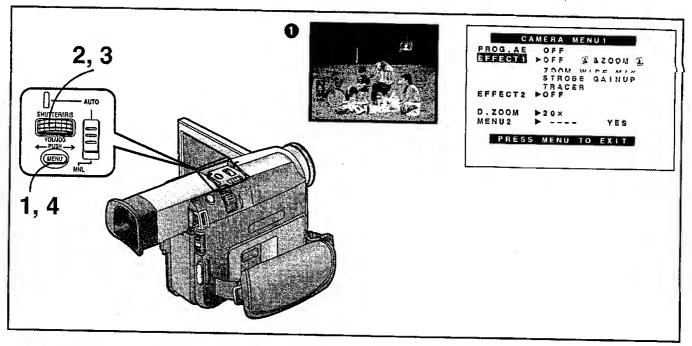
Recording in the Cinema Mode (Cinema Mode)

This mode lets you record in the cinema-like wide-screen format.

- Press the [MENU] Button.
 The [CAMERA MENU1] Menu appears.
- 2 Turn the [PUSH] Dial to select [MENU2].
- Press the [PUSH] Dial to select [YES]. The [CAMERA MENU2] Menu appears.
- 4 Turn the [PUSH] Dial to select [CINEMA].
- 5 Press the [PUSH] Dial to select [ON].
 Black bars appear at the top and bottom on the screen.
- 6 Press the [MENU] Button to exit the Menu.

Cancelling the Cinema Mode

Set [CINEMA] on the [CAMERA MENU2] Menu to [OFF].



中 文

在攝錄影機晃動最小的情況下 拍攝 (超級圖像穩定)

在攝錄影機容易發生晃動,如您拉近遙遠的目標物或在行走 進行攝影中等狀況下強行拍攝時,可利用該功能來穩定圖 像。

- 當攝錄影機晃動非常嚴重時,有可能無法穩定畫面。
- **1** 按[MENU](菜單) 鈕。 會出現[CAMERA MENU1]菜單。
- 2 轉動[PUSH]環,選擇[EFFECT1](效果 1)。
- **3** 按[PUSH]環,選擇[♠ &ZOOM]或[♠]。
- 4 按[MENU]鈕,推出菜單。 會出現[愈]指示❶。
- 在光線很暗之處,超級圖像穩定功能可能不會工作。在 此情況下,[♠]指示會閃爍。
- 在熒光燈下,圖像亮度可能會浮動不定,色彩也可能會 不自然。
- 可能會發生殘影失真。
- 當您使用三角架時,建議您關閉超級畫面穩定功能。

取消超級畫面穩定功能時

將[CAMERA MENU1]菜單上的[EFFECT1]設置在[OFF]。

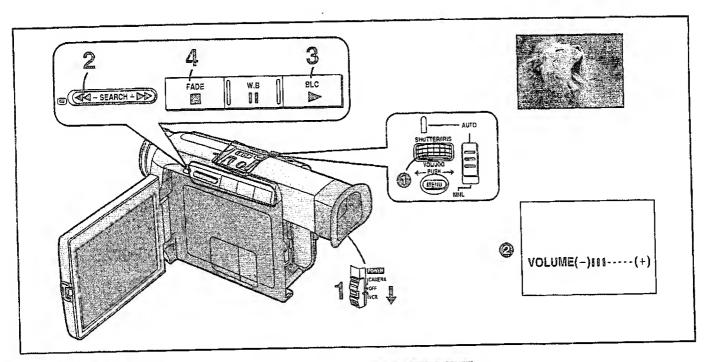
ENGLISH

Recording with Minimised Camera Shake (Super Image Stabilizer)

In recording situations where shaking of the Movie Camera is likely to happen, for example when you have zoomed in on a distant subject or when you record while walking, you can use this function to stabilize the image.

- In case of very strong camera shake, it may not be possible to stabilize the picture.
- 1 Press the [MENU] Button.
 The [CAMERA MENU1] appears.
- 2 Turn the [PUSH] Dial to select [EFFECT1].
- 4 Press the [MENU] Button to exit the Menu. The [] Indication appears.
- •In a dimly lit place, the Super Image Stabilizer Function may not work. In this case, the [1] Indication flashes.
- Under fluorescent lamps, the picture brightness may fluctuate and the colours may be unnatural.
- After-image distortion may occur.
- •When you use a tripod, we recommend that you turn the Super Image Stabilizer Function off.

Cancelling the Super Image Stabilizer Function Set [EFFECT1] on the [CAMERA MENU1] Menu to [OFF].



在攝錄影機上觀看剛才拍攝的場 景(放影)

您可在拍攝後立即觀看所拍場景。

- 1 將[POWER]開關設置在[VCR](錄放影機)。
 - 一邊按住中心鈕··邊將該開闢滑至[VCR]。
- 2 按倒帶[◆◆]鈕,倒轉錄影帶。
 - 務錄影帶倒轉至將要開始拍攝之點。
 - 若錄影帶到達開頭時,將自動停止倒普。
- 3 按放影[▶]鈕,開始放影。
- 4 停止放影時: 按停止[豳]鈕。

図 調節音量

按住[PUSH]環∰,直至出現[VOLUME]指示❷。然後,轉動[PUSH]環,調節音量。調節後,按[PUSH]環,使 [VOLUME]指示消失。

用遙控器調節音量時,按[T]或[W]鈕,使[VOLUME]指示出現。然後,您可按[T]鈕昇高音量,或按[W]鈕降低音量。 調節結束後幾秒鐘,[VOLUME]指示會消失。

圞 重復播放

- 如果您持續按住[≥]鈕5秒鐘以上,攝錄影機將切換至重 復播放狀態,且[RI>]指示會出現。取消重復播放狀態時,請將[POWER]開闢設置在[OFF]。
- 如果播放錄有版權保護信號的磁帶時,屏幕會變黑。

使日期/時間指示出現時

該攝錄影機會由動錄製日期和時間,然而,不是直接在豐豆 中,而是作為區編碼部分來錄製 (→ 156)。

使日期/時間出現時,請將IVCR MENU1]菜單点的[DATE/TIME]設定為需要的數值。

ENGLISH

Viewing the Just Recorded Scenes on the Movie Camera (Playback)

You can play back recorded scenes right after recording.

- Set the [POWER] Switch to [VCR].
 While pressing the centre button, slide the switch to [VCR].
- 2 Press the Rewind Button [◄◀] to rewind the tape.
 - Rewind the tape to the point where the recording started.
 - If the tape reaches the beginning, rewinding automatically stops.
- 3 Press the Play Button [▶] to start playback.
- ☐ To stop playback:
 Press the Stop Button [
 ☐].

Adjusting the Sound Volume

Keep the [PUSH] Dial pressed until the [VOLUME] Indication appears. Then, turn the [PUSH] Dial to adjust the volume. After adjusting, press the [PUSH] Dial to make the [VOLUME] Indication disappear.

To adjust the volume with the Remote Controller, press the [T] or [W] Button to make the [VOLUME] Indication appear. You can then increase the volume by pressing the [T] Button or decrease it by pressing the [W] Button. A few seconds after finishing the adjustment, the [VOLUME] Indication disappears.

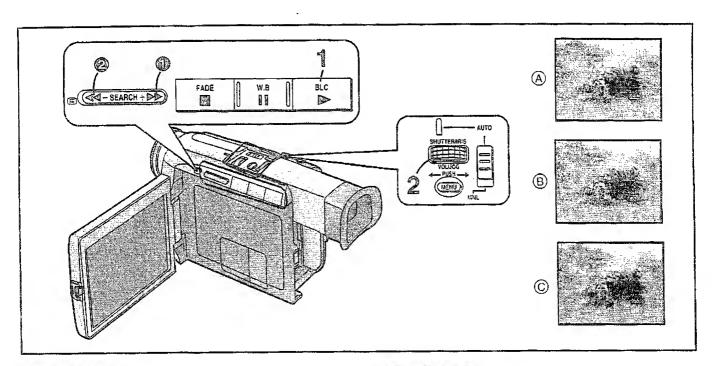
Repeat Playback

- •If you keep the Play Button [▶] pressed for more than 5 seconds, the Movie Camera switches over to the Repeat Playback Mode and the [R ▷] Indication appears. To cancel the Repeat Playback Mode, set the [POWER] Switch to [OFF].
- If a cassette recorded with copyright protection signal is played back, the screen becomes black.

Making the Date/Time Indication Appear

This Movie Camera automatically records the date and time, however not directly in the picture but as part of the sub code (→ 156).

To make the Date/Time Indication appear, set [DATE/TIME] on the [VCR MENU1] Menu to the desired setting.



尋影您打算播放的場景

快進尋影播放 A

在放影中,按住快進尋影[▶ □ | 鈕 • □ □

倒帶尋影播放 B

在放影中,按住倒帶尋影[◆4]鈕 ❷。

尋影鎖定功能

進行較長的快進尋影或倒帶尋影時,只能短暫地按快進尋影 [▶▶]鈕或倒帶尋影[◆◆]鈕。由於這樣做會鎖定轉影功能, 所以不必要長時間地按鈕。

- ◎ 恢復普通放影時,請按放影[▶]鈕。
- 在快達轉影和倒帶轉影播放中,含有快速移動物體的圖像可能會斑紋狀雜訊。

高級檢查功能

- 如果您在錄影帶快進中按快進| ▶▶]鈕,或在錄影帶的倒帶中按倒帶[◆◆]鈕時,按住該鈕多長時間,便可進行多長時間的快進尋影播放或倒帶等影播放。
- 在快進尋影播放或倒帶轉影播放的開頭和結尾,某些紀念圖像可能會發生失真。

變速尋影功能 ©

可以改變快進尋影播放或倒帶等影播放的速度。

- 1 播放中,按播放鈕[▶]。
- 2 轉動[PUSH]環,選擇需要的尋影速度。 變速尋影功能可在前後方向上,提供5種插放速度(1倍、2倍、5倍、10倍、20倍)的選擇。

恢復普通播放時

按播放鈕[▶]。權放會以普通远度持續進行。

- 在變速轉影(正向1倍速度除外)中,圖像上會出現斑紋 狀雜波。
- 使用變速尋影功能時,聲音是靜止的。

ENGLISH.

Searching for a Scene That You Want to Play Back

Cue Playback (A)

Keep the Cue Button [▶▶] pressed during playback.

Review Playback (B)

Keep the Review Button [◀◀] ② pressed during playback.

Search Lock Function

For longer Cue or Review Playback, press the Cue Button [>>] or the Review Button [<] only briefly. As this locks the search function, you do not need to keep the button pressed for a long time.

- To resume normal playback, press the Play Button [▶].
- •In Cue and Review Playback, pictures with fast-moving subjects may contain mosaic-like patterns.

Hyper Check Function

- olf you press the Fast-forward Button [▶▶] during fastforwarding of the tape or the Rewind Button [◄◄] during rewinding of the tape, Cue Playback or Review Playback continues for as long as you keep the Button pressed
- At the beginning and end of Cue Playback or Review Playback, some momentary picture distortion may occur.

Variable Speed Search Function ©

It is possible to change the speed of Cue Playback or Review Playback.

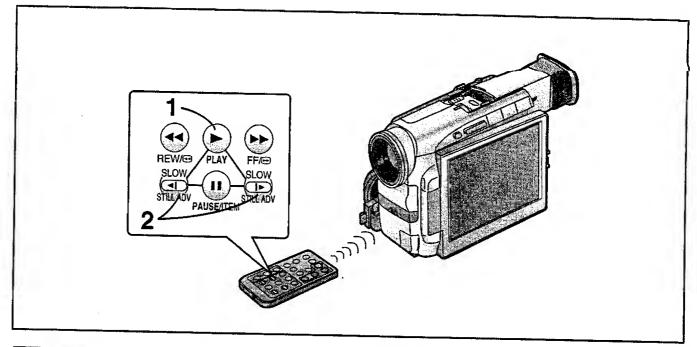
- Press the Play Button [▶] during playback.
- 2 Turn the [PUSH] Dial to select the desired search speed.

The Variable Speed Search function offers a choice of five playback speeds $(1\times, 2\times, 5\times, 10\times, 20\times)$ both in forward direction and reverse direction.

Returning to Normal Playback

Press the Play Button [▶]. Playback continues at normal speed.

- During Variable Speed Search (except at 1× speed in forward direction), mosaic-like patterns appear in the picture.
- •When using the Variable Speed Search Function, the sound is muted.



中 文

以慢動作進行播放(慢動作放影)

- 1 按放影[▶]鈕。
- 2 按遥控器上的慢動作/靜止步進[◄I]或[I▶] 鈕。

按[◀] 鈕時,可開始反向慢動作放影,按[▶] 鈕時,則可開始正向慢動作放影。

在SP狀態下拍攝的場景將以普通速度的約 1/5 的速度得到 播放。

在LP狀態下拍攝的場景將以普通速度的約 1/3 的速度得到 播放。

● 在反向慢動作放影中,時間編碼指示可能不精確。

恢復普通放影時

按放影[▶]鈕。 將以普通速度繼續進行放影。

ENGLISH

Playing Back in Slow Motion (Slow Motion Playback)

- 1 Press the Play Button [▶].
- Press the Slow Motion/Still Advance
 Button [◄] or [▶] on the Remote Controller.
 Pressing the [◄] Button starts slow motion playback
 in reverse direction, and pressing the [▶] Button
 starts slow motion playback in forward direction.

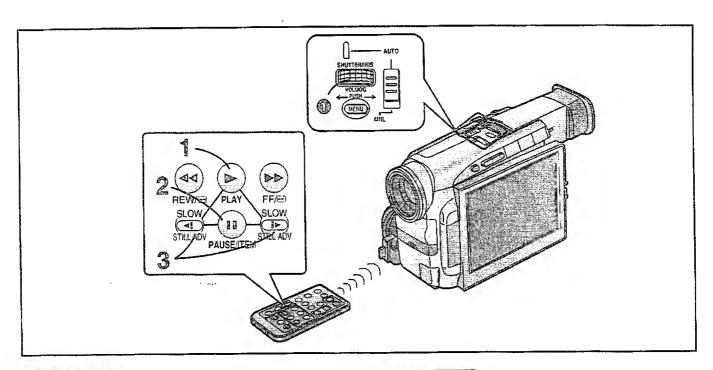
Scenes recorded in the SP Mode are played back at approximately 1/5th of the normal speed.

Scenes recorded in the LP Mode are played back at approximately 1/3rd of the normal speed.

 During slow motion playback in reverse direction, the Time Code Indication may not be accurate.

Resuming Normal Playback

Press the Play Button [▶].
Playback continues with normal speed.



播放靜止圖像和一幀幀地進行步 進(靜止放影/靜止步進放影)

在放影中,您可使動作停止和使靜止圖像一幀一幀地步進。

- 1 按放影[▶]鈕。
- 2 按暫停[12]鈕。 在靜止放影狀態下,播放的圖像會停止。
- 3 按遥控器上的慢動作/靜止步進[◄Ⅰ]或[▶] 鈕。

按[◀] 鈕,可使靜止圖像一幀幀地反向步進。按[▶] 鈕,則可使靜止圖像一幀幀地正向步進。

- 每次按[◄6]鈕,會進入反向中的下,幀靜止圖像。每次按[▶]鈕,會進入正向中的下,幀靜止圖像。持續按住任一鈕,會一幀幀地進入靜止圖像,直至您鬆開手指為止。
- 如果您讓攝錄影機處於靜止放影狀態超過6分鐘時,本機 將切換至停止狀態,以免影像磁頭嚴重磨損。
- 在靜止步進放影中,時間編碼指示可能不精確。

恢復普通放影時

按放影[▶]鈕。 將以普通速度繼續進行放影。

使用綴進環時(緩進放影)

在靜止放影狀態下,旋轉攝錄影機上的緩進環 ([PUSH]環) の 可使靜止圖像一幀一幀地正向或反向步進。

ENGLISH

Playing Back Still Pictures and Advancing Them One by One (Still Playback/Still Advance Playback)

You can freeze the action during playback and advance the still pictures one by one.

- ¶ Press the Play Button [▶].
- Press the Pause Button [11].
 The playback picture stops in the Still Playback Mode.
- Press the Slow Motion/Still Advance
 Button [4] or [4].
 Pressing the [4] Button advances the still picture

Pressing the [4] Button advances the still picture frame by frame in reverse direction. Pressing the [8] Button advances the still picture frame by frame in forward direction.

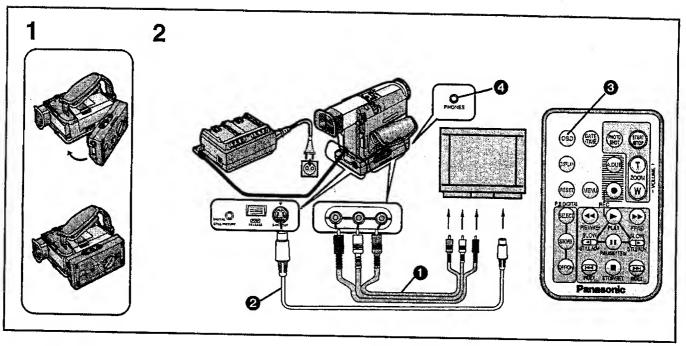
- ●Each press of the [◄] Button advances to the next still picture in reverse direction. Each press of the [▶] Button advances to the next still picture in forward direction. Keeping either button pressed continuously advances the still pictures frame by frame until you release the button.
- Off you leave the Movie Camera in the Still Playback Mode for more than 6 minutes, it switches over to the Stop Mode to protect the video heads against excessive wear.
- During Still Advance Playback, the Time Code Indication may not be accurate.

Resuming Normal Playback

Press the Play Button [▶]. Playback continues with normal speed.

Using the Jog Dial (Jog Playback)

By turning the Jog Dial ([PUSH] Dial) on the Movie Camera in the Still Playback Mode, you can advance the still pictures one by one in forward or reverse direction.



在電視機上進行放影 (安裝了輸出端子箱[AV ONE TOUCH STATION]時)

將輸出端子箱[AV ONE TOUCH STATION]安裝在攝錄影機上後,便可在電視機上播放拍攝的場景。

- **1** 安裝輸出端子箱[AV ONE TOUCH STATION]。(→ 110)
- 2 將影像和音頻輸出插孔連接至電視機上的 影像和音頻插孔。

使用AV纜線連接●至電視機。如果您的電視機具備S 影像插孔時,也可連接S影像纜線 ②。

- 連接之前,請關閉攝錄影機和電視機。
- 如果播放帶有版權保護信號的錄影帶時,屏幕可能會變黑。然而,用該攝錄影機拍攝的場景將不會含有版權保護信號。

使電視機屏幕上出現指示時

按遙控器上的[OSD](屏幕顯示) 鈕 ③。 電視機屏幕上也會出現屏幕指示。

通過頭戴耳機來欣賞播放的聲音時

若您打算用頭戴耳機來欣賞播放的聲音時,請將其連接至輸出端子箱[AV ONE TOUCH STATION]上的[PHONES](耳機) 插孔 4 。在此情況下,攝錄影機的內藏揚聲器將不會發出聲音,且無法調節播放聲音的音量。

ENGLISH

Playing Back on a TV (With the Output Terminal Box [AV ONE TOUCH STATION] Attached)

Attaching the Output Terminal Box [AV ONE TOUCH STATION] to the Movie Camera makes it possible to play back recorded scenes on a TV.

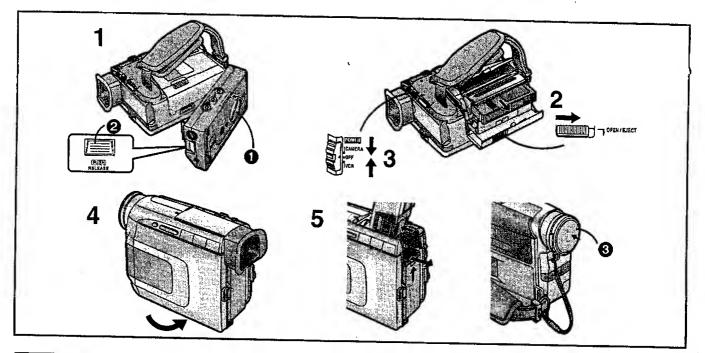
- 1 Attach the Output Terminal Box [AV ONE TOUCH STATION]. (→ 110)
- Connect the Video and Audio Output Sockets to the Video and Audio Input Sockets on the TV.

Use the AV Cable 1 to connect to the TV. If your TV is equipped with an S-Video Socket, also connect the S-Video Cable 2.

- Before connecting, turn off both the Movie Camera and the TV.
- If a cassette recorded with copyright protection signal is played back, the screen becomes black. However, scenes recorded with this Movie Camera do not contain a copyright protection signal.

Making the Indications Appear on the TV Screen
Press the [OSD] Button 3 on the Remote Controller.
The On-Screen Indications also appear on the TV screen.

Listening to the Playback Sound via Headphones If you want to use headphones to listen to the playback sound, connect them to the [PHONES] Socket 4 on the Output Terminal Box [AV ONE TOUCH STATION]. In this case, no sound is reproduced from the Movie Camera's built-in speaker, and the volume of the playback sound cannot be adjusted.



使用之後

- 1 一邊按住[PUSH RELEASE]鈕❷,一邊鬆開鎖定螺絲❶,和取出輸出端子箱[AV ONE TOUCH STATION]。
 - 請握住攝錄影機和輸出端子箱,以免其摔落。
- 2 取出錄影帶。(→22)
- 3 將[POWER]開關設置在[OFF]。 將該開關滑至[OFF]時,不必按中心鈕。
- 4 關閉液晶顯示監視器。
- 5 取出電池,收回電子尋像器。(→18)

安裝鏡頭蓋

使用後,請將附帶的鏡頭蓋 **③**,安裝在鏡頭上,以免其損壞。

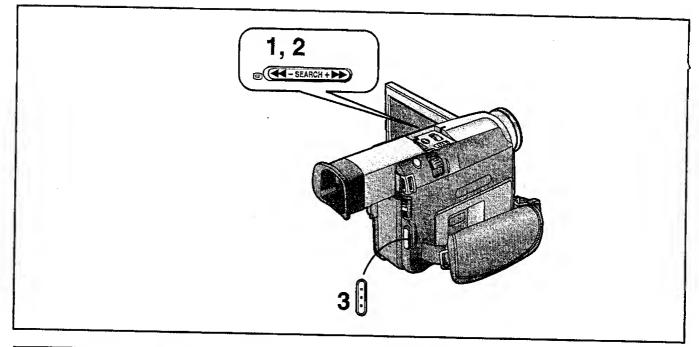
ENGLISH

After Use

- Loosen the locking screw and remove the Output Terminal Box [AV ONE TOUCH STATION] while pressing the [PUSH RELEASE] Button 2.
 - Hold both the Movie Camera and the Output Terminal Box firmly to prevent them from dropping.
- 2 Take out the cassette. (→ 22)
- 3 Set the [POWER] Switch to [OFF].
 It is not necessary to press the centre button in order to slide the switch to [OFF].
- 4 Close the LCD Monitor.
- Remove the Battery and retract the Finder.
 (→ 18)

Attaching the Lens Cap

After use, attach the supplied Lens Cap 3 to the Lens to protect it.



在拍攝暫停中觀看已錄場景 (攝錄影機尋影)

當攝錄影機處於拍攝暫停狀態時,可觀看拍攝的場景。 攝錄影機尋影功能便於尋找您打算用圓滑的場景與場景過渡 方法,開始拍攝新景之場景。

1 按住反向尋影鈕[- SEARCH]或正向尋影 鈕[SEARCH +]1 秒鐘以上。

按[- SEARCH]鈕,可反向播放圖像。 按[SEARCH +]鈕,可正向播放圖像。

從需要的位置開始放影時

- 2 鬆開被按住的尋影鈕。 攝錄影機將處於拍攝暫停狀態。
- 3 按啟動/停止鈕,可開始拍攝。 攝錄影機將用圓滑的場景與場景過渡方法,開始拍攝新的場景。
- 在攝錄影機尋影狀態下,圖像中可能含有斑紋狀雜訊。 然而,這是數位影像的特有現象,是完全正常的。
- 若以前的拍攝速度狀態 (SP/LP) 和新的拍攝不同,播放的圖像可能會失真。

ENGLISH

Viewing Recorded Scenes During Recording Pause (Camera Search)

You can view recorded scenes when the Movie Camera is in the Recording Pause Mode.

The Camera Search Function is convenient to search for a scene from which you want to start recording a new scene with smooth scene-to-scene transition.

Keep the Reverse Search Button
[- SEARCH] or the Forward Search Button
[SEARCH +] pressed for more than 1
second.

Pressing the [- SEARCH] Button plays back the picture in reverse direction.

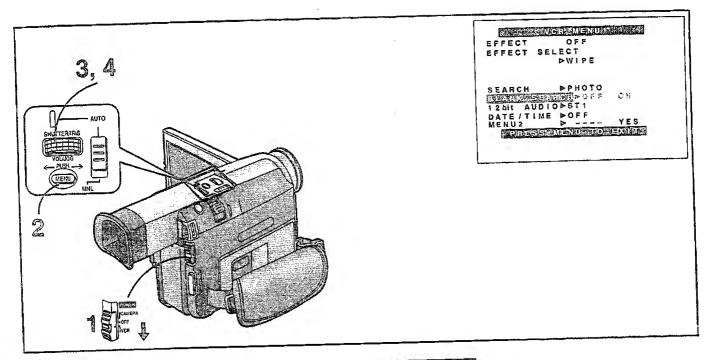
Pressing the [SEARCH +] Button plays back the picture in forward direction.

Starting to Record from the Desired Position

- 2 Release the pressed Search Button.
 The Movie Camera is in the Recording Pause Mode.
- 3 Press the Start/Stop Button to start recording.

The Movie Camera starts recording a new scene with smooth scene-to-scene transition.

- •In the Camera Search Mode, the picture may contain mosaic-like patterns. However, this is a phenomenon particular to digital video and completely normal.
- If the Recording Speed Mode (SP/LP) of the previous and the new recording are different, the playback picture may be distorted.



中文。

尋影錄影帶上已錄場景的結尾 (空白尋影)

使用空白尋影功能,可快速位於錄影帶上已錄部分的結尾 (或拍攝之間的空白部分)。

- 1 將[POWER]開關設置在[VCR](錄放影機)。
 - -邊按住中心鈕·一邊將該開關滑至[VCR]。
- 2 按[MENU](菜單)鈕。 會出現[VCR MENU1]菜單。
- 3 轉動 [PUSH] (下按)環,選擇 [BLANK SEARCH] (空白尋影)。
- 4 按[PUSH]環,選擇[ON]。 在最後拍攝場景之前的約1秒鐘,攝錄影機將切換至靜 止放影狀態。
- 如果錄影帶上無空白,攝錄影機會停止在磁帶結尾。
- 在空白尋影操作結束後,如果您將[POWER]開關設置在 [CAMERA](攝錄影機),然後開始拍攝時,新的場景將 圓滑地接錄到上次已拍場景的結尾。

ENGLISH

Searching for the End of the Recorded Part on a Cassette (Blank Search)

With the Blank Search Function, you can quickly locate the end of the recorded part on a cassette (or a blank part between recordings).

- Set the [POWER] Switch to [VCR].
 While pressing the centre button, slide the switch to [VCR].
- Press the [MENU] Button.
 The [VCR MENU1] Menu appears.
- 3 Turn the [PUSH] Dial to select [BLANK SEARCH].
- Press the [PUSH] Dial to select [ON].

 Approximately 1 second before the end of the last recorded scene, the Movie Camera switches over to the Still Playback Mode.
- If there is no blank part on a cassette, the Movie Camera stops at the end of the tape.
- elf you set the [POWER] Switch to [CAMERA] and then start recording after the Blank Search has finished, the new scene will be joined to the end of the last recorded scene with a smooth transition.

CR MENU1

EFFECT ►OFF EFFECT SELECT ►OFF

SEARCH PHOTO SCENE
BLANK SEARCHPOFF
12bit AUDIOPST1
DATE/TIME POFF
MENU2 PRESS MENU TO EXIT

CAMERA MENU3 LCD MODE **►NORMAL** LCD / EVF SET POFF REMOTE ►VCR1 SELFSHOOT **►NORMAL** C.RESET **▶**OFF SCENE INDEX > 2 HOUR DAY REC LAMP DOFF BEEP SOUND▶OFF CLOCK SET POFF RETURN YES PRESS MENU TO

中文

尋影帶有索引信號標誌的拍攝 場景之開頭 (索引尋影)

為了簡單地尋找需要的場景,在下列拍攝狀況下,該攝錄影 機會自動錄製索引信號:

❶ 拍照索引信號

可尋影拍攝狀態下拍照的靜止圖像(→38)·和用於自動 打印(→120)。

每當您拍攝靜止圖像時,都會自動錄製拍照索引信號。

- 然而,在順序拍照狀態下 (→38),將不會錄製拍照索引信號。
- 2 場景索引信號

可尋影拍攝場景的開頭。

在下列情况下,會自動錄製場景索引信號:

- 插入錄影帶後開始拍攝時;
- 根據[CAMERA MENU3]菜單上[SCENEINDEX](場景索引)的設定值:

[2 HOUR]: 當在2小時的間隔後重新開始拍攝時,

會錄製索引信號。

[DAY]:

在上次拍攝以來的日期已經改變後,重

新進行拍攝時,會錄製索引信號。

(在索引信號錄製中,[INDEX]指示會閃爍幾秒鐘。)

ENGLISH

Searching for the Beginning of Recorded Scenes Marked with Index Signal

(index Search)

To allow easy searching for desired scenes, this Movie Camera automatically records index signals during recording as follows:

1 Photoshot Index Signal

To search for still pictures recorded in the Photoshot Mode (→ 38) and to use for automatic printing (→ 120).

A photoshot index signal is automatically recorded every time you record a still picture in the Photoshot Mode.

- However, in the Continuous Photoshot Mode (→ 38), no photoshot index signals are recorded.
- 2 Scene Index Signal

To search for the beginning of recorded scenes. A scene index signal is automatically recorded in the following cases:

- ●When you start recording after inserting a cassette.
- According to the setting of [SCENEINDEX] on the [CAMERA MENU3] Menu:

[2HOUR]: An index signal is recorded when

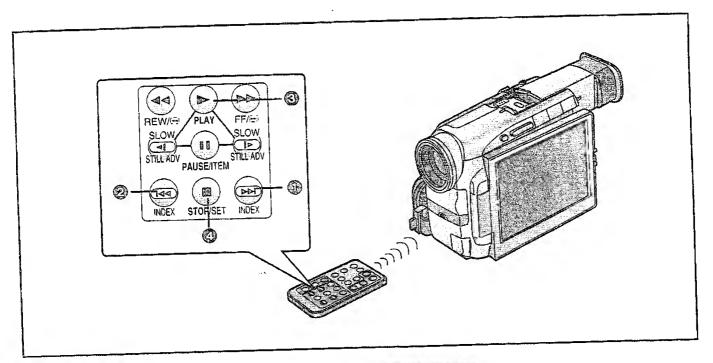
recording is restarted after a lapse of

more than 2 hours.

[DAY]:

An index signal is recorded when recording is restarted after the date has changed since the last recording.

(While an index signal is being recorded, the [INDEX] Indication flashes for a few seconds.)



中文。

尋影在拍攝狀態下拍攝圖像的開頭 (拍照索引尋影)

- 將[POWER]開闢設置在[VCR](錄放影機)。
- 將(VCR MENU1)菜單上的[SEARCH](等影) 設置在 [PHOTO](照片)。

正向拍照索引尋影時

按遙控器上的索引[▶时]鈕⑩。

反向拍照索引尋影時

按遙控器上的索引[◄◄]鈕❷。

- 每次按相應的鈕,錄影帶將快進或倒帶至下一頓在拍攝 狀態下拍攝的靜止圖像。
 - 到達下一幀靜止圖像之後,將連續播放靜止圖像,然而,聲音卻只有4秒鐘左右。(如果讓攝錄影機處於靜止 放影狀態超過6分鐘時,本機將切換至停止狀態,以防 止影像磁頭嚴重受損。)
- 對於錄製在錄影帶開頭附近的靜止圖像,拍照索引尋影功能可能無法正常工作。
- 在順序拍照狀態下拍攝的靜止圖像,未錄製拍照索引信號(→38),因此,對於這些靜止圖像、將無法使用拍照索引尋影功能。
- 如果您按住[◄◄]或[►►]鈕2秒鐘以上,將啟動放頭尋影功能。該功能將一幀接一幀地播放錄影帶上在拍攝狀態下拍攝的所有靜止圖像(每幀幾秒鐘)。
 (取消放頭轉影功能時,請按放影[►]鈕 ④ 或停止[四]
 鈕 ○)

ENGLISH

Searching for Photoshot Pictures (Photoshot Index Search)

- •Set the [POWER] Switch to [VCR].
- •Set [SEARCH] on the [VCR MENU1] Menu to [PHOTO].

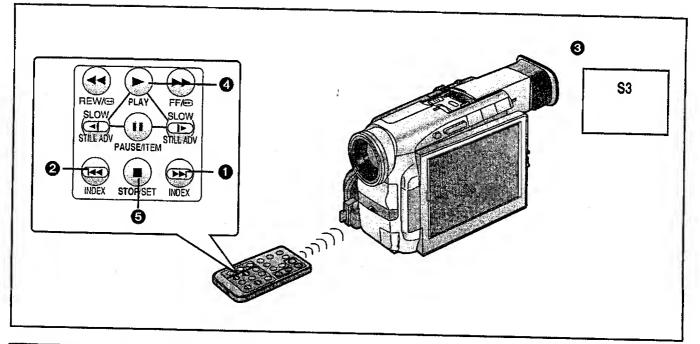
Photoshot Index Search in Forward Direction Press the Index Button [▷⋈] on the Remote Controller.

Photoshot index Search in Reverse Direction Press the Index Button [I◄◄] ② on the Remote Controller.

- At every press of the corresponding button, the tape is fast-forwarded or rewound to the next still picture recorded in the Photoshot Mode.

 After reaching the next still picture, the still picture is played back continually, however the sound only for approximately 4 seconds. (If you leave the Movie Camera in the Still Playback Mode for more than 6 minutes, it switches over to the Stop Mode to protect the video heads against excessive wear.)
- The Photoshot Index Search may not work correctly for still pictures recorded near the beginning of the tape.
- As no photoshot index signals are recorded for still pictures recorded in the Continuous Photoshot Mode
 (→ 38), the Photoshot Index Search Function cannot be used to search for these still pictures.
- elf you keep the [I◄◄] or [►►I] Button pressed for more than 2 seconds, the Intro Search Function is activated and it plays back all still pictures recorded in the Photoshot Mode on the cassette one after another for a few seconds each.

(To cancel the Intro Search Function, press the Play Button [▶] ③ or the Stop Button [☒] ④.)



尋影已錄場景的開頭(場景索引尋影)

- 將[POWER]開關設置在[VCR](錄放影機)。
- 將[VCR MENU1]菜單上的[SEARCH](尊影) 設置在 [SCENE](場景)。

正向場景索引尋影時

按遙控器上的索引[▶]鈕 ① 1次。

反向場景索引尋影時

按遙控器上的索引[1◀4]鈕 ② 1次。

- 當您輕按相應的鈕一次時,會出現[S1]指示,並開始尋影下一個帶有索引信號標誌的場景。在場景索引尋影開始之後,每次按該鈕,指示將不斷從[S2]變為[S9],且會定位於與號碼相應的場景開頭 ③。到達需要的場景之後,將自動開始放影(此時,場景索引尋影功能最多可從目前的錄影帶位置開始,正向或反向尋影 9 個場景)。
- 如果兩個場景索引信號之間的間隔少於1分鐘時,場景索引尋影功能可能無法正常工作。
- 對於錄製在錄影帶開頭附近的靜止圖像,拍照索引尋影功能可能無法正常工作。
- 如果您持續按住遙控器上的[I◄◄]或[▶►I]鈕2秒鐘以上,將啟動放頭尋影功能。該功能將一個接一個地播放錄影帶上所有帶有索引信號標誌的場景的開頭(每個幾秒鐘)。

(取消放頭尋影功能時,請按放影[▶]鈕 ④ 或停止[■] 鈕 ⑤。)

ENGLISH

Searching for the Beginning of Recorded Scenes (Scene Index Search)

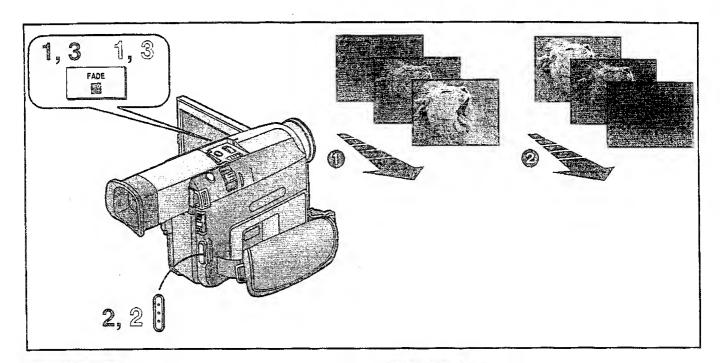
- •Set the [POWER] Switch to [VCR].
- Set [SEARCH] on the [VCR MENU1] Menu to [SCENE].

Scene Index Search in Forward Direction
Press the Index Button [▶▶i] on the Remote
Controller.

Scene Index Search in Reverse Direction
Press the Index Button [I◄◄] ② on the Remote
Controller.

- •When you briefly press the corresponding button once, the [S1] Indication appears and the search for the next scene marked with an index signal starts. After the Scene Index Search has started, every time you press the button, the indication changes successively from [S2] to [S9], and the beginning of the scene corresponding to the selected number is located. After reaching the desired scene, playback starts automatically. (At a time, Scene Index Search in forward or reverse direction is possible up to the ninth scene marked with index signal from the present tape position.)
- If the interval between two scene index signals is less than 1 minute, the Scene Index Search may not work correctly.
- The Scene Index Search may not work correctly for scenes recorded near the beginning of the tape.
- •If you keep the [◄◄] or [►►I] Button pressed for more than 2 seconds, the Intro Search Function is activated and it plays back the beginning of all scenes marked with an index signal on the cassette one after another for a few seconds each.

(To cancel the Intro Search Function, press the Play Button [▶] 4 or the Stop Button [■] 5.)



中文《

淡入/淡出

淡入

淡入可讓您在場景開頭,使圖像和聲音逐漸從黑屏幕中出 現。

1 在攝錄影機處於拍攝暫停狀態下,按住淡 化鈕[FADE]。

圖像會逐漸消失。

- 2 當圖像已經完全消失後,按啟動/停止鈕, 開始拍攝。
- 3 在拍攝開始後約3秒鐘,鬆開淡化鈕 [FADE] • 闧像將逐漸地重新出現。

淡出②

淡出可讓您在場景結尾,使圖像和聲音逐漸消失在黑屏幕 ㅁㅁ

- 🗓 在拍攝中,按住淡化鈕[FADE]。 圖像會逐漸消失。
- 🙎 當圖像已經完全消失後,按啟動/停止鈕, 停止拍攝。 攝錄影機將處於拍攝暫停狀態。
- 🥞 鬆開淡化鈕[FADE]。

ENGLISH

Fading In/Out

Fading In (1)

Fading-in lets you make the picture and sound appear gradually from a black screen at the beginning of a scene.

With the Movie Camera in the Recording Pause Mode, keep the Fade Button [FADE] pressed.

The picture gradually disappears.

- When the picture has completely disappeared, press the Start/Stop Button to start recording.
- Approximately 3 seconds after the recording has started, release the Fade **Button [FADE].**

The picture gradually appears again.

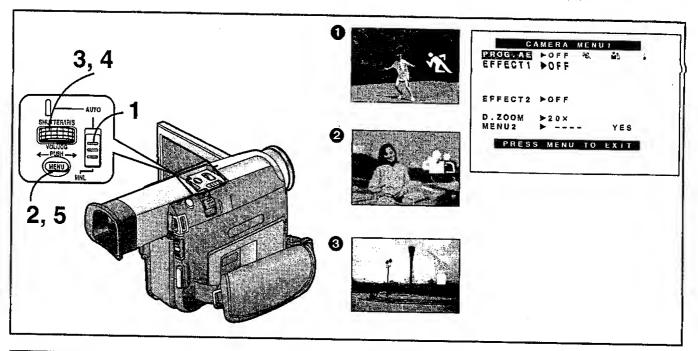
Fading Out 2

Fading-out lets you make the picture and sound disappear gradually into a black screen at the end of a scene.

- During recording, keep the Fade Button [FADE] pressed.
 - The picture gradually disappears.
- 2 After the picture has completely disappeared, press the Start/Stop Button to stop recording.

The Movie Camera is in the Recording Pause Mode.

Release the Fade Button [FADE].



中 文

在各種狀況下拍攝 (程序AE)

該功能可讓您選擇最適合特殊拍攝狀況的自動曝光設定。

- 1 將狀態選擇開關設置在[MNL](手動)。 [MNL]指示會出現。
- 2 按[MENU](菜單) 鈕。 會出現[CAMERA MENU1]菜單。
- 3 轉動[PUSH]環,選擇[PROG.AE](程序AE)。
- 4 按[PUSH]環,選擇需要的狀態([※、]、 [♣3]或[♠])。
- 5 按[MENU]鈕,退出菜單。

會出現所選擇的狀態。

[※]運動狀態 ❶

可拍攝運動場景之類快速移動的目標物。

[➡]素描特寫 ②

可使目標物明顯地突出於背景。

[▮]弱光狀態 3

可將較暗的場景拍得更亮。

取消程序AE功能時

將[CAMERA MENU1]菜單上的[PROG.AE](程序 AE) 設置在[OFF]。或將狀態選擇開關設置在[AUTO](自動)。

ENGLISH

Recording In Special Situations (Programme AE)

This function lets you select Automatic Exposure settings optimized for special recording situations.

- Set the Mode Selector Switch to [MNL]. The [MNL] Indication appears.
- Press the [MENU] Button.
 The [CAMERA MENU1] Menu appears.
- 3 Turn the [PUSH] Dial to select [PROG.AE].
- 4 Press the [PUSH] Dial to select the desired mode ([¾], [♣¹] or [♣]).
- 5 Press the [MENU] Button to exit the Menu. The indication of the selected mode appears.

[🛠] Sports Mode 🕦

To record scenes with fast-moving subjects such as sports scenes.

[🛂] Portrait Mode 2

To make subjects stand out sharply from the background.

[4] Low Light Mode 3
To record dark scenes more brightly.

Cancelling the Programme AE Function
Set [PROG.AE] on the [CAMERA MENU1] Menu to
[OFF]. Or set the Mode Selector Switch to [AUTO].

運動狀態

- 播放用運動狀態拍攝的場景時,可欣賞圖像細部極其精 微、清晰的慢動作和靜止放影。
- 應避免在熒光燈、水銀蒸汔燈或鈉蒸汔燈下進行拍攝, 否則播放圖像的色彩和亮度會有閃變現象。
- 當拍攝的目標物受強光照射或反光很強時,播放的圖像可能帶有垂直光紋。
- 當場景的光線不足時,[※]指示會閃爍。
- 當利用該狀態進行室內拍攝時,播放的圖像可能會閃光。
- 在[CAMERA MENU1]菜單中,不能同時選擇運動狀態 [冬]和超高鹽敏度狀態[GAINUP]。

素描特寫狀態

- 當利用該狀態進行室內拍攝時,播放的圖像可能會閃光。
- 在[CAMERA MENU1]菜單中,不能同時選擇素描特寫狀態[🏖]和超高靈敏度狀態[GAINUP] •

弱光狀態

● 對於特別黑暗的場景,可能無法足夠地增光。

ENGLISH

Sports Mode

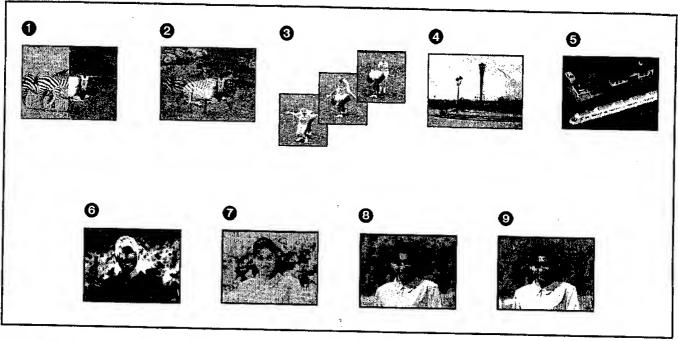
- When playing back scenes recorded in the Sports Mode, you can enjoy slow motion and still playback of very sharp images with fine details.
- Avoid recording under fluorescent, mercury-vapour or natrium lamps in this mode, as the colour and the brightness of the playback picture might fluctuate.
- When recording subjects lit by strong lights or with much light reflection, the playback picture may contain vertical streaks of light.
- •When the scene is not sufficiently lit, the [*] Indication flashes.
- •When using this mode for recording indoors, the playback picture may flicker.
- ●It is not possible to select the Sports Mode [ዺ] together with the Gain-up Mode [GAINUP] on the [CAMERA MENU1] Menu.

Portrait Mode

- When using this mode for recording indoors, the playback picture may flicker.
- ●It is not possible to select the Portrait Mode [♣3] together with the Gain-up Mode [GAINUP] on the [CAMERA MENU1] Menu.

Low Light Mode

•It may not be possible to sufficiently brighten up extremely dark scenes.



中 文

用特殊效果拍攝

(數位效果)

有九種不同的狀態可用於增添特殊數位圖像效果。

數位效果 1[EFFECT1]

動變狀態[WIPE]該功能可用新場景的圖像逐漸取代以前拍攝的最後圖像,像拉上窗簾一般。有關細節,(→76)。

② 混合狀態[MIX] 該功能將在新場景圖像的淡入中,使以前拍攝的最後圖 像逐漸淡出。有關細節,(→78)。

- ③ 頻閃狀態[STROBE] 可用頻閃觀測儀一般的效果拍攝圖像。
- ◆ 超高靈敏度狀態[GAIN UP] 該功能會電子性地增加圖像的亮度。 該狀態中,請手動調節聚焦。
- ⑤ 拖尾效果狀態[TRACER] 將用拖尾效果錄製圖像。 如果您在順序拍照狀態下進行拍攝時(→ 38)·僅第一張 靜止圖像才具有此效果。

數位效果 2[EFFECT2]

- ⑤ 負片/正片狀態[NEGA] 拍攝的圖像色彩顛倒,如同照片的底片一樣。
- **⑦** 棕色狀態[SEPIA]

 用棕色調拍攝場景,類似舊照片的色彩。
- ⑧ 黑白狀態[B/W] 將以黑白色拍攝圖像。

ENGLISH

Recording with Special Effects

(Digital Effects)

There are 9 different modes available for adding special digital picture effects.

Digital Effects 1 [EFFECT1]

Wipe Mode [WIPE]

It gradually replaces a picture of the last previously recorded scene with the picture of the new scene, like drawing a curtain. For details, (\rightarrow 76).

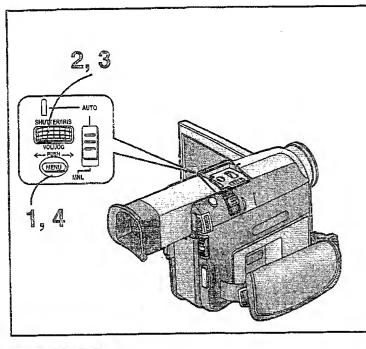
Mix Mode [MIX] It gradually fades out the picture of the last previously recorded scene while fading in the picture of the new scene. For details, (→ 78).

- 3 Strobe Mode [STROBE]
 It records the pictures with a stroboscope-like effect.
- 4 Gain-up Mode [GAIN UP]
 It electronically brightens up the picture.
 In this mode, adjust the focus manually.
- Trailing Effect Mode [TRACER]
 The picture is recorded with a trailing effect.
 If you record in the Continuous Photoshot Mode
 (→ 38), only the first still picture has this effect.

Digital Effects 2 [EFFECT2]

- 6 Negative/Positive Mode [NEGA] The recorded pictures have reversed colours similar to photographic negatives.
- Sepia Mode [SEPIA]
 Scenes are recorded with a brown tint similar to the colour of old photographs.
- Black & White Mode [B/W] The picture is recorded in black and white.
- Solarisation Mode [SOLARI]

 The picture is recorded with an effect similar to a painting.



PROGRE OFF IN SZOOM IN ZOOM WIPE MIX STROBE GAINUP TRACER
EFFECT2 POFF

D. ZOOM P20x
MENU2 P --- YES

中文。

用特殊效果拍攝(數位效果)(接上頁)

選擇需要的數位效果時

- 1 按[MENU](菜單)鈕。 會出現[CAMERA MENU1]菜單。
- 2 轉動[PUSH]環,選擇[EFFECT1](效果 1) 或[EFFECT2](效果 2)。
- 3 按[PUSH]環,選擇需要的數位效果。
- 4 按[MENU]鈕,推出菜單。
 - 園像即會具備所選擇的效果。然而,只有在相應的狀態下進行實際拍攝時,才能見到划變功能和混合功能的效果。 (→ 76,78)
- 如果您已將[CAMERA MENU1]菜單上的[EFFECT1]設置在[GAINUP]時,需要手動調節聚焦。然而,卻無法調節快門速度和選擇的白色平衡狀態。
- 如果您已將[CAMERA MENU1]菜單上的[EFFECT2]設置 在[B/W]或[SEPIA]時,則無法改變所選擇的白色平衡狀態。
- 在[CAMERA MENU1]菜單上,不能與超高蠶敏度狀態 [GAINUP]---起,同時選擇運動狀態[※]或素描特寫狀態 [齡]。

取消數位效果時

將[CAMERA MENU1]菜單上的[EFFECT1]或[EFFECT2]設定在[OFF]。

ENGLISH

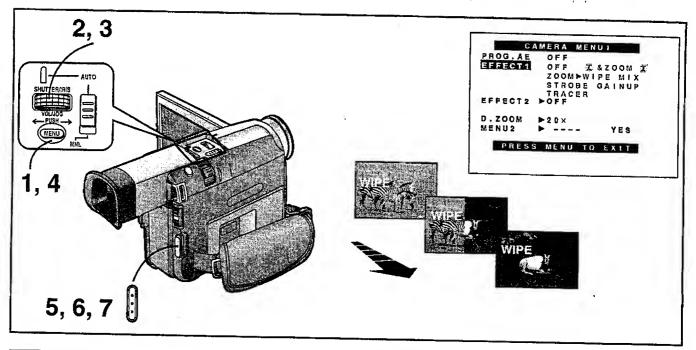
Recording with Special Effects (Digital Effects) (Continued)

Selecting the Desired Digital Effect

- Press the [MENU] Button.
 The [CAMERA MENU1] Menu appears.
- 2 Turn the [PUSH] Dial to select [EFFECT1] or [EFFECT2].
- Press the [PUSH] Dial to select the desired digital effect.
- Press the [MENU] Button to exit the Menu.
 The picture now has the selected digital effect.
 However, the effect of the Wipe Function and the Mix Function only become visible when actually recording in the respective mode. (-> 76, 78)
- •If you have set [EFFECT1] on the [CAMERA MENU1] Menu to [GAINUP], you need to adjust the focus manually; however, adjusting the shutter speed and selecting a white balance mode are not possible.
- If you have set [EFFECT2] on the [CAMERA MENU1] Menu to [B/W] or [SEPIA], changing the selected white balance mode is not possible.
- olt is not possible to select the Sports Mode [炎] or the Portrait Mode [鉛] together with the Gain-up Mode [GAINUP] on the [CAMERA MENU1] Menu.

Cancelling the Digital Effect

Set [EFFECT1] or [EFFECT2] on the [CAMERA MENU1] Menu to [OFF].



用特殊效果拍攝(數位效果)(接上頁)

■划變狀態

該功能可用新場景的圖像逐漸取代以前拍攝的最後圖像 · 像拉上窗簾一般。

- 1 按[MENU](菜單) 鈕。 會出現[CAMERA MENU1]菜單。
- 2 轉動[PUSH]環,選擇[EFFECT1](效果 1)。
- **3** 按[PUSH]環,選擇[WIPE](划變)。
- **4** 按[MENU]鈕,推出菜單。 會出現[WIPE]指示。
- 5 按啟動/停止鈕,開始拍攝。 將開始普通拍攝。
- 6 按啟動/停止鈕,暫停拍攝。 最後的圖像將被保存在記憶中。 [WIPE]指示將變為[WIPE]。
- 7 按啟動/停止鈕,再次開始拍攝。 以前場景的最後圖像將逐漸被新的場景取而代之。

ENGLISH

Recording with Special Effects (Digital Effects) (Continued)

■ Wipe Mode

It gradually replaces a still picture of the last recorded scene with the moving picture of the new scene, like drawing a curtain.

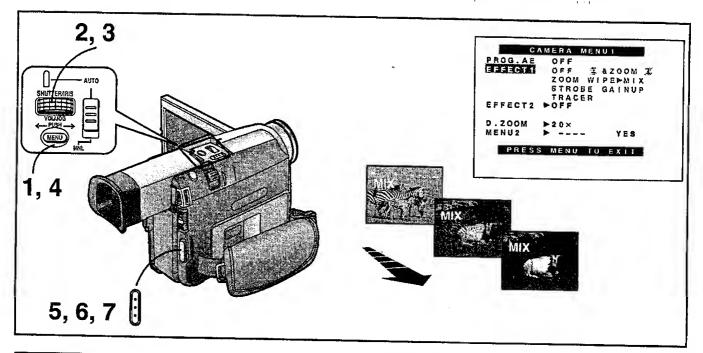
- 1 Press the [MENU] Button.
 The [CAMERA MENU1] Menu appears.
- 2 Turn the [PUSH] Dial to select [EFFECT1].
- 3 Press the [PUSH] Dial to select [WIPE].
- 4 Press the [MENU] Button to exit the Menu. The [WIPE] Indication appears.
- Press the Start/Stop Button to start recording.
 The normal recording starts.
- 6 Press the Start/Stop Button to pause recording.

The last picture is stored in memory.

The [WIPE] Indication changes to [WIPE].

7 Press the Start/Stop Button to start recording again.

The last picture of the previous scene is gradually replaced by the new scene.



用特殊效果拍攝(數位效果)(接上頁)

■混合狀態

該功能將在新場景圖像的淡入中,使以前拍攝的最後圖像逐 漸淡出。

- 1 按[MENU](菜單) 鈕。 會出現[CAMERA MENU1]菜單。
- 2 轉動[PUSH]環,選擇[EFFECT1](效果 1)。
- 3 按[PUSH]環,選擇[MIX](混合)。
- **4** 按[MENU]鈕,推出菜單。 會出現[MIX]指示。
- 5 按啟動/停止鈕·開始拍攝。 將開始普通拍攝。
- 6 按啟動/停止鈕,暫停拍攝。 最後的圖像將被保存在記憶中。 [MIX]指示將變為[MIX]。
- 7 按啟動/停止鈕,再次開始拍攝。 在新場景淡入中,最後的圖像將逐漸淡出。

ENGLISH

Recording with Special Effects (Digital Effects) (Continued)

■ Mix Mode

It gradually fades out a still picture of the last recorded scene while fading in the moving picture of the new scene.

- 1 Press the [MENU] Button.
 The [CAMERA MENU1] Menu appears.
- 2 Turn the [PUSH] Dial to select [EFFECT1].
- 3 Press the [PUSH] Dial to select [MIX].
- 4 Press the [MENU] Button to exit the Menu. The [MIX] Indication appears.
- 5 Press the Start/Stop Button to start recording.

The normal recording starts.

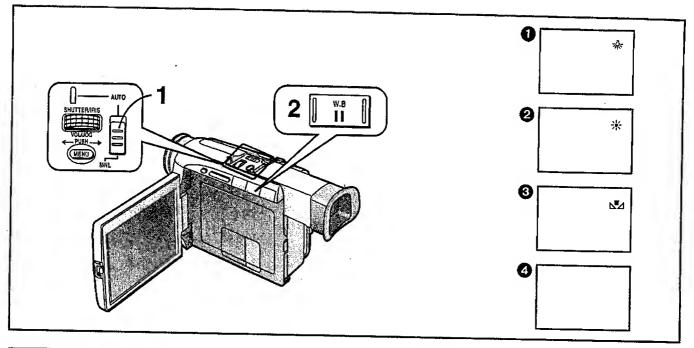
6 Press the Start/Stop Button to pause recording.

The last picture is stored in memory.

The [MIX] Indication changes to [MIX].

7 Press the Start/Stop Button to start recording again.

The last picture gradually fades out while the new scene fades in.



用自動色彩拍攝 (白色平衡)

該攝錄影機會自動調節白色平衡,以確保用自然色彩來拍攝圖像。然而,對於某些類型的目標物和燈光條件,該自動白色平衡調節狀態可能無法確保自然色彩(→162,164)。在此情況下,您可選擇下面將要解釋的三種預設狀態之一(室內、室外或上次手動調節的白色平衡設定),或手動調節白色平衡(→82)。

- 1 將狀態選擇開關設置在[MNL](手動)。 會出現[MNL]指示。
- 2 按白色平衡鈕[W.B]。

重復按[W.B]鈕,可選擇需要的白色平衡狀態。

狀態將以下列順序改變:

- ① 室內狀態 (在熒光燈下拍攝時)(_次)
- 2 室外狀態(※)
- ③ 上次手動調節的白色平衡設定 (→82)(№2)
- 4 自動白色平衡調節 (無指示)
- 如果您已經將[CAMERA MENU1]菜單上的[EFFECT1]設置在[GAINUP],或已經將[EFFECT2]設置在[SEPIA]或[B/W]時,則無法選擇白色平衡狀態。
- 改變白色平衡狀態時,須在光學變焦範圍之內(1倍-10倍)設定攝錄影機。若您試圖在數位變焦範圍內進行 調節時,[△□]指示會閃爍。

恢復自動白色平衡調節狀態時

重復按[W.B]鈕,直至所有的白色平衡狀態指示([☆], [※],[№]) 都消失為止。或者,將狀態選擇開關設置在 [AUTO]。

ENGLISH

Recording with Natural Colours (White Balance)

This Movie Camera automatically adjusts the white balance to ensure that the pictures are recorded with natural colours. For certain types of subjects and lighting conditions, however, this Auto White Balance Adjustment Mode may not be able to ensure natural colours (→ 162, 164). In these cases, you can select either one of the 3 preset modes explained below (indoor, outdoor, or the last manually adjusted white balance setting), or you can manually adjust the white balance (→ 82).

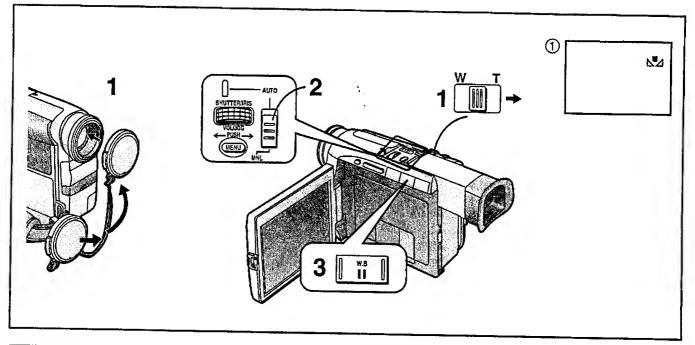
- 1 Set the Mode Selector Switch to [MNL]. The [MNL] Indication appears.
- Press the White Balance Button [W.B]. Repeatedly press the [W.B] Button to select the desired White Balance Mode.

The modes change in the following order:

- 2 Outdoor Mode (**)
- 3 Last manually adjusted White Balance setting
 (→ 82) (△□△)
- Automatic White Balance Adjustment (no Indication)
- If you have set [EFFECT1] on the [CAMERA MENU1] Menu to [GAINUP] or you have set [EFFECT2] to [SEPIA] or [B/W], it is not possible to change a white balance mode.
- To change the white balance mode, the Movie Camera must be set within the optical zoom range (1×-10×). If you try to adjust it in the digital zoom range, the [N□] Indication flashes.

Returning to the Auto White Balance Adjustment Mode

Press the [W.B] Button repeatedly until none of the White Balance Mode Indications ([,], [,], [,]) are displayed any more. Or, set the Mode Selector Switch to [AUTO].



手動調節白色平衡

由於自動白色平衡調節狀態 (→ 164) 只能確保該範圍之內的燈光類型能夠獲得自然色彩,所以,對於範圍 ① 之外的所有其它類型的燈光,請使用手動白色平衡調節狀態。為了幾乎所有的類型的燈光下都能獲得良好的結果,建議您像專家一樣,對每個新場景都進行手動白色平衡調節。

- 1 裝上鏡頭蓋,進行拉近,直至整個屏幕變成白色。
- 2 將狀態選擇開關設置在[MNL](手動)。 會出現[MNL]指示。
- 3 持續按住[W.B]鈕,直至[№]指示① 停止 閃爍,且保持亮起為止。
- 現在手動白色平衡調節已告結束。如果您以後,如已經使用了自動白色平衡調節後,想重新使用該設定時,按[W.B](白色平衡)3次,可調出該設定(在此情況下,[△□]指示會閃爍)。
- 如果您已經將[CAMERA MENU1]菜單上的[EFFECT1]設置在[GAINUP],或已經將[EFFECT2]設置在[SEPIA]或[B/W]時,則無法調節白色平衡。
- 查攝錄影機被設置在光學變焦範圍(1倍-10倍)之內時,只能調節白色平衡。若您試圖在數位變焦範圍內進行調節時,[[№]]指示會閃爍。

恢復自動白色平衡

調節狀態時

重復按[W.B]鈕,直至所有的白色平衡狀態指示([_余], [※],[№])都消失為止。或者,將狀態選擇開關設置在 [AUTO]。

ENGLISH

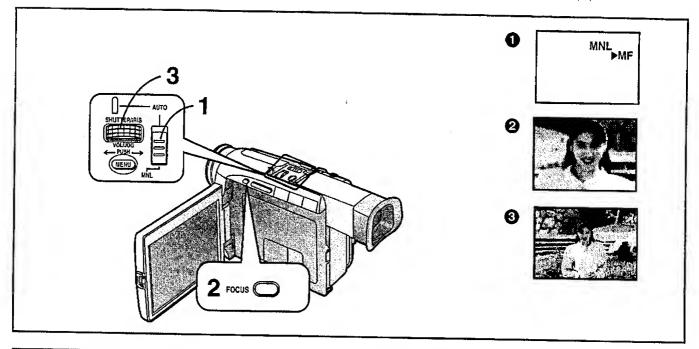
Adjusting the White Balance Manually

Use the Manual White Balance Adjustment Mode for all types of lighting outside the range (→ 164), as the Auto White Balance Adjustment Mode can only ensure natural colours for the types of lighting within that range. For optimum results under almost any type of lighting, we recommend that you adjust the white balance manually for each new scene.

- Attach the Lens Cap and zoom in until the entire screen becomes white.
- 2 Set the Mode Selector Switch to [MNL]. The [MNL] Indication appears.
- 3 Keep the [W.B] Button pressed until the [№] Indication ① stops flashing and remains lit.
 - The Manual White Balance Adjustment is now finished. If you want to use this setting again later on, for example after having used Automatic White Balance Adjustment, you can recall it by pressing the [W.B] Button 3 times. (In this case, the [№] Indication flashes.)
 - When the [N型] Indication remains flashing under weak illumination, the Manual White Balance Adjustment cannot be set manually.
 - If you have set [EFFECT1] on the [CAMERA MENU1] Menu to [GAINUP], or you have set [EFFECT2] to [SEPIA] or [B/W], it is not possible to adjust the white balance.
 - Adjusting the white balance is only possible when the Movie Camera is set within the optical zoom range (1×−10×). If you try to adjust it in the digital zoom range, the [№] Indication flashes.

Returning to the Auto White Balance Adjustment Mode

Press the [W.B] Button repeatedly until none of the White Balance Mode Indications ([,,],[,,],[,]) are displayed any more. Or, set the Mode Selector Switch to [AUTO].



手動進行目標物的聚焦 (手動聚焦)

對於無法精確地進行自動聚焦的目標物和拍攝條件,該功能 可讓您手動調節聚焦。

- 1 將狀態選擇開關設置在[MNL](手動)。 [MNL]指示會出現。
- 2 按[FOCUS](聚焦) 鈕。
 [▶MF]指示 ♠ 會出現。
 MF: 手動聚焦
- **3** 轉動[PUSH]環,直至目標物清晰為止。

恢復自動聚焦狀態時

按[FOCUS]鈕·使[►MF]指示消失。或將狀態選擇開關設置 在[AUTO](自動)。

手動聚焦調節的提示

- 如果您在廣角範圍內聚焦時,若進行放大,則可能無法 進行目標物的聚焦。因此,請在調節聚焦之前,放大目 標物②,這樣,當您拉遠時③,圖像將保持聚焦。
- 如果您打算在調節快門速度 (→ 86) 或光圈 (→ 88) 之後,手動調節聚焦時,即使[► MF]示顯示着,也須按 [FOCUS]鈕,使[MF]指示出現。

ENGLISH

Focusing on the Subject Manually (Manual Focus)

This makes it possible to adjust the focus manually for subjects and recording situations for which automatic focusing is not precise.

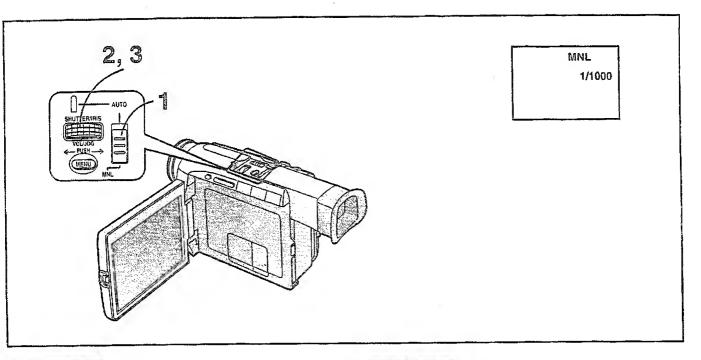
- Set the Mode Selector to [MNL].
 The [MNL] Indication appers.
- Press the [FOCUS] Button.
 The [► MF] Indication (Manual Focus Mode)
 appears.
 MF: Manual Focus
- 3 Turn the [PUSH] Dial until the subject is sharp.

Returning to the Automatic Focusing Mode
Press the [FOCUS] Button to make the [▶ MF] Indication
disappear. Or, set the Mode Selector Switch to [AUTO].

Hint for Manual Focus Adjustment

- If you adjust the focus in the wide-angle setting, the subject may go out of focus when you enlarge it.

 Therefore, enlarge the subject ② before you adjust the focus, so that the picture remains focused when you zoom out ③.
- If you want to adjust the focus manually after having adjusted the shutter speed (→ 86) or the iris (→ 88), be sure to press the [FOCUS] Button to make the [► MF] Indication appear, even if the [MF] Indication is displayed.



手動調節快門速度

為了獲得特殊創新效果或為了對應特殊燈光條件或快動場 景,可手動調節快門速度。

- 1 將狀態選擇開關設置在[MNL](手動)。 [MNL]指示會出現。
- 2 按[PUSH]環。 快門速度指示會出現。 重復按[PUSH]環時,可以在快門速度指示和光圈(F數字)(→88)指示之間進行切換。
- 3 轉動[PUSH]環,調節快門速度。

快門速度的調節範圍

1/50~1/8000秒 標準快門速度為1/50秒。 您選擇的設定越靠近[1/8000],快門速度將越快。

恢復普通的快門速度時

將狀態選擇開關設置在[AUTO](自動)。

ENGUSH

Adjusting the Shutter Speed Manually

To achieve special creative effects or to cope with special lighting situations or fast-action scenes, you can adjust the shutter manually.

- Set the Mode Selector Switch to [MNL].
 The [MNL] Indication appears.
- Press the [PUSH] Dial.

 The Shutter Speed Indication appears.

 You can change between the Shutter Speed Indication and the Iris (F Number) (→ 88) Indication by repeatedly pressing the [PUSH] Dial.
- Turn the [PUSH] Dial to adjust the shutter speed.

Range of Shutter Speed Adjustment

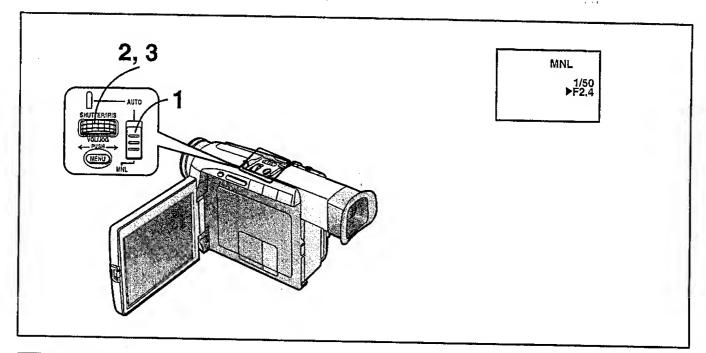
1/50 - 1/8000 s

The standard shutter speed is 1/50 s.

The nearer to [1/8000] a setting you select, the faster the shutter speed becomes.

Returning to the Normal Shutter Speed

Set the Mode Selector Switch to [AUTO].



手動調節光圈 (F數字)

為了獲得特殊創新效果或用特殊燈光條件進行拷貝,可手動調節光圈 (F數字)。

- 1 將狀態選擇開關設置在[MNL](手動)。 會出現[MNL]指示。
- 2 按[PUSH]環2次。

[▶F]指示會出現。

重復按[PUSH]環時,可以在快門速度指示和光圈 (F數字) 指示之間進行切換。

3 轉動[PUSH]環,調節光圈。

光圈調節的範圍

CLOSE (關閉) → F16...F1.7→OP + 0dB (打開) ...OP + 18dB 您選擇的值越靠近[CLOSE] · 圖像將變得越暗。 您選擇的值越靠近[OP + 18dB] · 圖像將變得越亮。 帶 + dB 的數字表示超高靈敏度值。如果數值倍增加得過分時,會降低書質。

恢復普通的光圈值(F數字)時

按[PUSH]環 1 次,使[▶F]指示消失。或將狀態選擇開關設置在[AUTO](自動)。

進行手動光圈調節之後,用手動調節快門速度時,將使光圈恢復自動調節狀態。因此,如果您打算手動快門速度和光圈時,須首先調節快門速度。(→86)

ENGLISH

Adjusting the Iris (F Number) Manually

To achieve special creative effects or to cope with special lighting situations, you can adjust the iris (F number) manually.

- 1 Set the Mode Selector Switch to [MNL]. The [MNL] Indication appears.
- Press the [PUSH] Dial twice.

 The [▶ F] Indication appears.

 You can change between the Iris (F Number)

 Indication and the Shutter Speed Indication by repeatedly pressing the [PUSH] Dial.
- 3 Turn the [PUSH] Dial to adjust the iris.

Range of Iris Adjustment

CLOSE (Closed)→F16...F1.7→OP+0 dB (Opened)...OP+18 dB

The nearer to [CLOSE] a value you select, the darker the picture becomes.

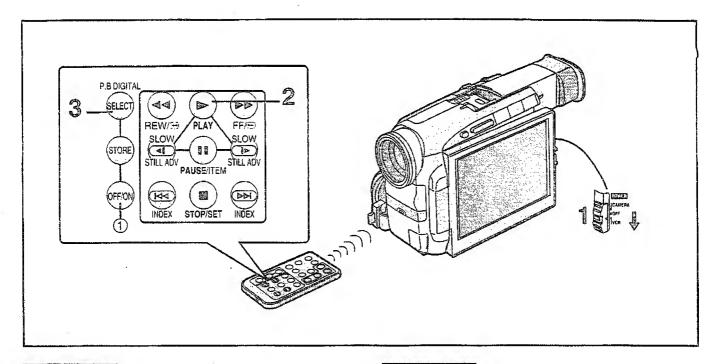
The nearer to [OP+18 dB] a value you select, the brighter the picture becomes.

The figures with +dB show the Gain-up value. If you increase the value too much, the picture quality deteriorates.

Returning to the Normal Iris Value (F Number) Press the [PUSH] Dial one time to make the [▶ F]

Indication disappear. Or set the Mode Selector Switch to [AUTO].

 Manually adjusting the shutter speed after performing manual iris adjustment changes the iris back to automatic adjustment. Therefore, if you want to adjust both the shutter speed and iris manually, be sure to adjust the shutter speed first. (→ 86)



用特殊效果進行放影(放影數位效果)

放影中,可以用八種不同的狀態、給您的拍攝增添特殊數位 圖像效果。它們與拍攝干能夠使用的數位效果1和2(→ 72) 相同。

@[WIPE](划變) @[MIX](混合)

②[STROBE](頻閃)

@[NEGA](底片) @[SEPIA](棕色)

⑥[B/W](黑白)

(MITRACER](拖尾) (MISOLARI)(曝光過久)

- 將[POWER]開關設置在[VCR](錄放影 機)。
- 2 按放影鈕[▶]。
- ③ 按遥控器上的[SELECT](選擇)鈕,選擇 需要的數位效果。

將「VCR MENU1]菜單上的IEFFECT SELECTI(效果選 擇) 設置在需要的效果,也可選擇數位效果。

暫停放影數位效果時

您可以重復按IOFF/ONJ鈕(1),暫停或重新啟動數位效果。 將[VCR MENU1]菜單上的[EFFECT]設置在[OFF],也可暫 停數位效果,之後,設置在[ON]時,可重新啟動。當數位效 果暫停時,選擇的數位效果指示會閃爍。

取消數位效果時

將[VCR MENU1]菜單上的[EFFECT SELECT]設置在 [OFF] o

- 播放中用數位效果增加的圖像信號,將不能從DV(數位 影像) 端子 (→ 112) 或數位靜畫端子上輸出。(→ 124)
- 只有對用錄影帶實際播放的信號,才能在播放中增添數 位效果。例如,對於為增添數位效果而通過攝錄影機的 回路信號,將無法增添。

ENGLISH

Playing Back with Special Effects (Playback Digital Effects)

There are 8 different modes available for adding special digital picture effects to your recordings during playback. They are identical to the Digital Effects 1 and 2 (-> 72) that can be used during recording.

(I) [WIPE]

2 [MIX]

(STROBE)

(2) [NEGA]

(SEPIA)

(6) [B/W]

[TRACER]

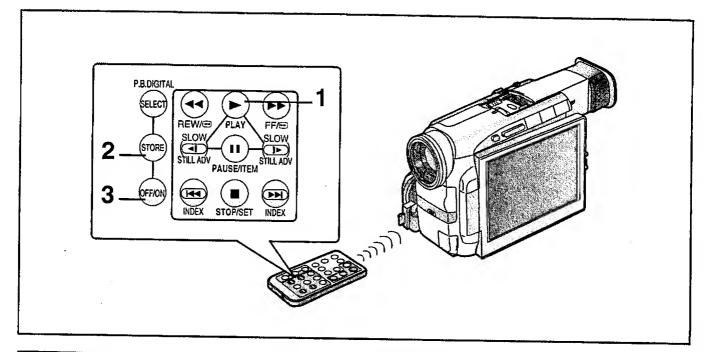
- (SOLARI)
- Set the [POWER] Switch to [VCR].
- Press the Play Button [▶].
- Press the [SELECT] Button on the Remote Controller to select the desired digital

Selecting a digital effect is also possible by setting [EFFECT SELECT] on the [VCR MENU1] Menu to the desired effect.

Suspending the Playback Digital Effect Temporarily You can suspend and re-activate the digital effect by repeatedly pressing the [OFF/ON] Button (1). Suspending the digital effect is also possible by setting [EFFECT] on the [VCR MENU1] Menu to [OFF], and later to [ON] to reactivate it. When the digital effect is temporarily suspended, the indication of the selected effect flashes. Cancelling the Digital Effect

Set [EFFECT SELECT] on the [VCR MENU1] Menu to

- The signal of the picture with a digital effect added during playback cannot be output from the DV Terminal (→ 112) or the Digital Still Picture Terminal. (→ 124)
- Adding a digital effect during playback is only possible when the signal is actually played back from the tape; i.e. looping signals through the Movie Camera in order to add a digital effect is not possible.



用特殊效果進行放影

(放影數位效果)(接上頁)

■ 划變功能和混合功能

在第90頁的步驟3中選擇了[WIPE](划變)或[MIX](混合)後:

- 1 按[▶]鈕,開始播放。
- 2 在您打算作為靜畫而儲存在記憶中的場面 處,按[STORE](儲存) 鈕。

[WIPE](划變)或[MIX](混合)指示會出現,圖像將被儲存在記憶中。

3 在您打算使用划變或混合效果的場景處,按[OFF/ON]鈕。

該場景將以划變或混合效果進行改變。

- 具有用遙控器·才能在播放中操作划變功能和混合功能。
- 播放錄影帶上的空白部分時,將無法添加划變或混合效果。
- 如果您在划變或混合功能操作中,按了[OFF/ON]鈕時, 該效果將暫停於此點。當您再次按[OFF/ON]鈕時,該效 果將復原。

ENGLISH

Playing Back with Special Effects

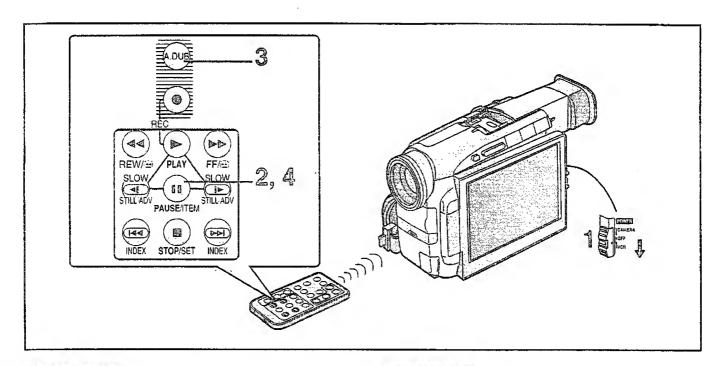
(Playback Digital Effects) (Continued)

- Wipe Function and Mix Function After having selected [WIPE] or [MIX] in Step 3 on page 90:
- 1 Press the [▶] Button to start playback.
- 2 Press the [STORE] Button at the moment that you want to store as still image in memory.

The [WIPE] or [MIX] Indication appears and the picture is stored in memory.

- Press the [OFF/ON] Button at the scene at which you want to use a Wipe or Mix effect.

 The scenes change with a Wipe or Mix effect.
- Operating the Wipe Function and the Mix Function during playback is only possible with the Remote Controller.
- It is not possible to add a Wipe or Mix effect during playback of an unrecorded part on the tape.
- If you press the [OFF/ON] Button while the Wipe or Mix is being performed, the effect is paused at that point. If you press the [OFF/ON] Button again, the effect resumes.



一中文

在已拍錄影帶上增添新的聲音(音頻拷貝)

進行音頻拷貝、需要有遥控器。

可以在已拍錄影帶上添加音樂和解說。

- 如果[CAMERA MENU2]菜單上的[AUDIO REC](音頻拷 貝)項被設置在[16bit]時,若進行音頻拷貝,將會完全 抹消以前錄製的聲音(當您打算進行音頻拷貝,但也想 保住原來的聲音時,必須於當初拍攝之前,將[AUDIO REC]設置在[12bit])。
- 不能在已經用 LP 狀態拍攝的內容上進行音頻拷貝。(→24)
- 1 插入已拍錄影帶,將[POWER]開關設置在 [VCR](錄放影機)。
- 2 在您打算插入新的聲音之處,將攝錄影機 切換至靜止放影狀態。
- 3 按遥控器上的[A.DUB](音頻拷貝)鈕。
- 4 按遥控器上的暫停[11]鈕,開始音頻拷貝。

停止音頻拷貝時

按遙控器上的暫停[18]]鈕。攝錄影機將再次處於靜止放影狀 態。

ENGLISH

Adding New Sound on a Recorded Cassette (Audio Dubbing)

To perform audio dubbing, the Remote Controller is necessary.

You can add music or narration on a recorded cassette.

- •If [AUDIO REC] on the [CAMERA MENU2] Menu has been set to [16bit], performing audio dubbing erases the previously recorded sound. (If you intend to perform audio dubbing but also want to keep the original sound, be sure to set [AUDIO REC] to [12bit] before making the original recording.)
- It is not possible to perform audio dubbing onto recordings made in the LP Mode. (→ 24)
- Insert the recorded cassette and set the [POWER] Switch to [VCR].
- 2 At the point from which you want to insert the new sound, switch the Movie Camera over to the Still Playback Mode.
- 3 Press the [A.DUB] Button on the Remote Controller.
- Press the Pause Button [II] on the Remote Controller to start audio dubbing.

Stopping Audio Dubbing

Press the Pause Button [11] on the Remote Controller. The Movie Camera is again in the Still Playback Mode.

播放用音頻拷貝錄製的聲音

根據[VCR MENU1]菜單上的[12bit AUDIO](12 位音頻)的選擇設定,可以用音頻拷貝功能添加聲音,并可如下播放原來的聲音:

ST1: 僅播放原來的聲音; ST2: 僅播放拷貝的聲音:

MIX:將一起播放原來的聲音和音頻拷貝添加的聲音。

- 不能在錄影帶上未拍的部分上進行音頻拷貝。否則,將 導致播放的圖像和聲音失真。
- 如果您將磁帶計數器復原至零,並在您打算結束音頻拷 貝之處啟動了記憶停止功能(→ 166)時,當錄影帶到達 此點時,音頻拷員會自動停止。

ENGLISH

Playing Back the Sound Recorded with Audio Dubbing

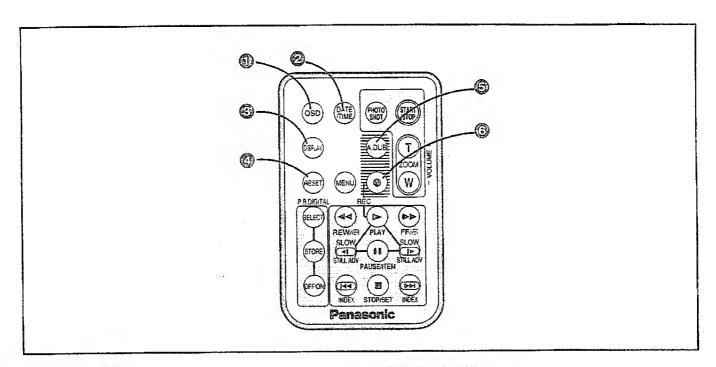
Depending on the setting selected for [12bit AUDIO] on the [VCR MENU1] Menu, the sound added with audio dubbing and the original sound are played back as follows:

ST1: The original sound alone is played back.

ST2: The dubbed sound alone is played back.

MIX: The original sound and the sound added with audio dubbing are played back together.

- Do not perform audio dubbing onto unrecorded parts of the tape. This could cause the playback picture and sound to be distorted.
- olf you reset the Tape Counter to zero at the point where you want the audio dubbing to end and turn on the Memory Stop Function (→ 166), the audio dubbing automatically stops when the tape reaches that point.



,申 文 · · ·

遥控器

使用該攝錄影機附帶的無線遙控器,可讓您在遠處操作該攝 錄影機的大多數主要功能。

遥控器的按鈕

- 指示輸出鈕[OSD](⇒52)
 可在連接的電視機上顯示功能和操作指示。
- ② 日期和時間鈕[DATE/TIME](→ 44) 在拍攝和放影中,使日期/時間指示在圖像中出現或消失。
- **御 指示移動鈕[DISPLAY](→** 174)
 可改變指示。
- **復原鈕[RESET](→ 166)**可使磁帶計數器復原至零。
- **命 音頻拷貝鈕[A.DUB](→ 94)**可進行音頻拷貝。
- 録影鈕[REC](→112) 當您用DV(數位影像)輸入/輸出端子,將數位信號輸入攝錄影機進行拷貝時,請同時按[REC]和[PLAY](放影)鈕。

ENGLISH

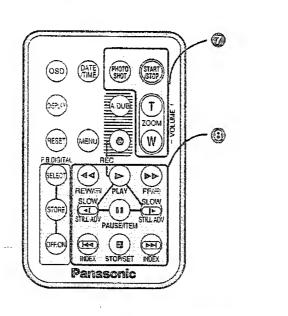
Remote Controller

Using the wireless Remote Controller supplied with the Movie Camera allows operating most of the Movie Camera's major functions from a distance.

Buttons on the Remote Controller

- Indication Output Button [OSD] (→ 52)
 To display the function and operation indications on a connected TV.
- ② Date and Time Button [DATE/TIME] (→ 44)
 To make the Date/Time Indication appear or
 disappear in the picture during recording or playback.
- ③ Indication Shift Button [DISPLAY] (→ 174)
 To select the desired Counter Indication.
- Reset Button [RESET] (→ 166)

 To reset the Tape Counter to zero.
- Saudio Dubbing Button [A.DUB] (→ 94)
 To perform audio dubbing.
- Recording Button [REC] (→ 112)
 To dub digital signals input into the Movie Camera via the DV Input/Output Terminal, press the [REC] Button and the [PLAY] Button together.



。中 文

@ 錄影和音量控制

拍照鈕[PHOTO SHOT](→ 38)

可拍攝靜止圖像。

拍攝啟動 / 停止鈕[START/STOP](→ 30)

可開始和暫停拍檯。

變焦/音量鈕[ZOOM/VOLUME]

可拉近和拉遠。 (→ 36)

可調節播放聲音的音量。(→ 44)

① 放影和菜單設定控制

倒帶/倒帶尋影鈕[◄母]

在普通放影中,如果按該鈕,會開始倒帶尋影播放 (→46):在停止狀態下按該鈕時,會倒轉錄影帶。 在拍攝暫停狀態下,按住該鈕時,也可啟動反向攝錄影 機尋影功能(→56)。短暫按該鈕,可啟動拍攝檢查功能 (→32)。

快進/快進尋影鈕[▶▶]

在普通放影中,如果按該鈕,會進行快進釋影播放 (→46):在停止狀態下按該鈕時,會快避錄影帶。 在拍攝暫停狀態下,按住該鈕時,也可啟動正向攝錄影 機尋影功能(→56)。

放影鈕[▶](→ 44)

可開始放影。

ENGLISH .

Controls for Recording and Sound Volume

Photoshot Button [PHOTO SHOT] (→ 38) To record still pictures.

Recording Start/Stop Button [START/STOP] (→ 30)

To start and pause recording.

Zoom/Sound Volume Buttons [ZOOM/VOLUME]

To zoom in and out. (→ 36)

To adjust the volume of the playback sound. (-> 44)

(i) Controls for Playback and Menu setting

Rewind/Review Button [44]

To start review playback (→ 46) if pressed during normal playback; and to rewind the tape if pressed in the Stop Mode.

Also to activate the Camera Search Function (→ 56) in reverse direction if kept pressed in the Recording Pause Mode. Pressing it briefly activates the Recording Check Function (→ 32).

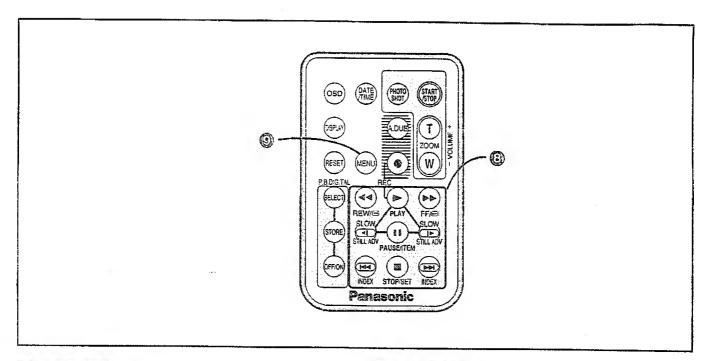
Fast-forward/Cue Button [▶▶]

To start cue playback (→ 46) if pressed during normal playback; and to fast-forward the tape if pressed in the Stop Mode.

Also to activate the Camera Search Function (→ 56) in forward direction if kept pressed in the Recording Pause Mode.

Play Button [▶] (→ 44)

To start playback.



② 放影和菜單設定控制 (續前)

慢動作/靜止步進鈕[◄4 ' №](→ 48,50)

在放影狀態下按該鈕時,可進行優動作放影;若在靜止 放影普通狀態下按該鈕,則會進行靜止步進放影。

(41: 反向:▶:正向)

索引尋影鈕[◄◄, ▶▶](→ 60,62)

可尋影帶有索引信號標誌的已拍場景和在拍照狀態下攝 製的靜止圖像。

(▶■: 反向:▶▶: 正向)

停止鈕[図](→ 44)

可停止錄影帶。

暂停鈕[圓](→ 50,94)

可暫停放影。播放的圖像會保持不動。

@ 菜單鈕[MENU]

按菜單鈕[MENU]時,可顯示出菜單。 在此情況下,下列按鈕的功能將改變。

暫停鈕→項目鈕

可選擇菜單上的項目。

停止鈕→設定鈕

可設定所選擇項目的狀態。

ENGLISH

Controls for Playback and Menu setting (Continued)

Slow Motion/Still Advance Button [◄, ♣>] (→ 48, 50)
To perform Slow Motion Playback if pressed in the
Normal Playback Mode; and to perform Still Advance
Playback if pressed in the Still Playback Mode.
(◄: in reverse direction, ♣: in forward direction)

Index Search Button [I◄◄, ▶Ы] (→ 60, 62)

To search for recorded scenes marked with an index signal and for still images recorded in the Photoshot Mode.

(I◄<: in reverse direction, ▶►I: in forward direction)

Stop Button [28] (→ 44)

To stop the tape.

Pause Button [88] (→ 50, 94)

To pause playback. The playback picture stands still.

Menu Button [MENU]

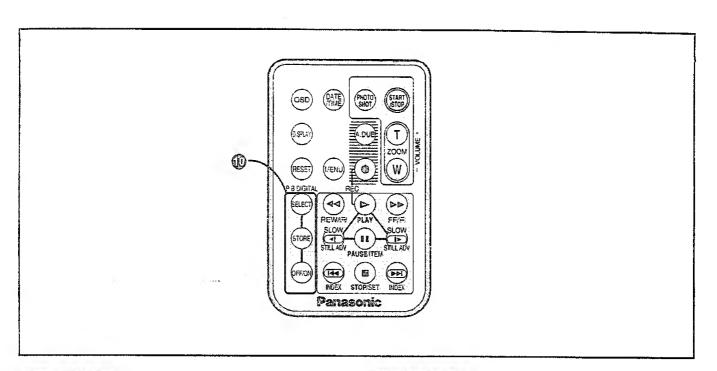
Pressing the Menu Button [MENU] displays the Menu. In this case, the functions of the following buttons are changed:

Pause Button→Item Button

To select items on the Menu.

Stop Button→Setting Button

To set the mode for the selected item.



⑩ 放影數位效果

播放數位效果選擇鈕[SELECT](→ 90)

可選擇需要的用於[VCR MENU1]菜單上的[EFFECT SELECT]的數位效果。

儲存鈕[STORE](→ 92)

可以將用於划變或混合功能的靜止圖像儲存在記憶中。

關閉/啟動鈕[OFF/ON](→ 92)

可暫停所選擇的數位狀態,或重新啟動。

可用記憶中儲存的靜止圖像,開始進行划變或混合。

ENGLISH -

Playback Digital Effects

Selection Button [SELECT] (→ 90)

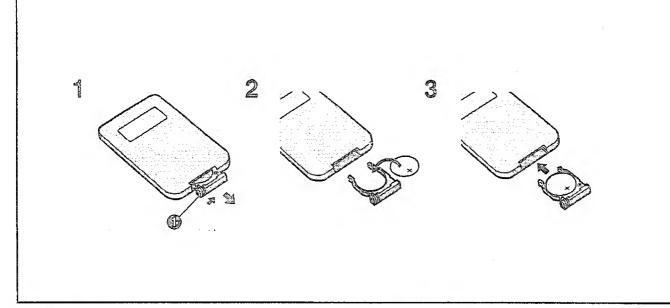
To select the desired digital effect for [EFFECT SELECT] on the [VCR MENU1] Menu.

Store Button [STORE] (→ 92)

To store a still picture in memory for the Wipe or Mix Function.

Off/On Button [OFF/ON] (→ 92)

To suspend the selected digital mode or re-activate it. To start a Wipe or Mix transition from the still picture stored in memory.



遥控器(接上頁)

圖 插入鈕扣式電池

使用遙控器之前,請插入附帶的鈕扣式電池。

- 1 一邊按住塞子 1 ,一邊拉出電池座。
- 2 將打印着 (+) 標記的一面朝上, 插入鈕 扣式電池。
- 3 將電池座插入遥控器中。
 - 當鈕扣式電池耗盡時,請用新CR2025型電池將其更新。

(電池壽命約為一年。然雨,還要看使用頻度。)

- 勿讓孩子觸模鈕扣型電池。
- 插入電池時,須確保其極性正確。

注意事項

如果電池更換不當,則可能有發生爆炸的危險。 只能更換設備製造廠家所推薦的相同和同等電池。 請遵照製造廠家的説明,丟棄用過的電池。

:: ENGLISH :

Remote Controller (Continued)

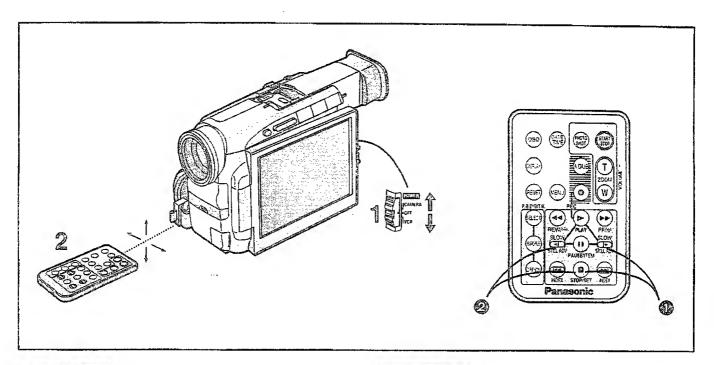
Inserting the Button-type Battery

Insert the supplied button-type battery before using the Remote Controller.

- Pull out the Battery Holder while pressing the Stopper .
- 2 Insert the button-type battery with the stamped (+) mark facing upward.
- Insert the Battery Holder into the Remote Controller.
- When the button-type battery is exhausted, replace it with a new CR2025 battery.
 (The life of the battery is about 1 year. However, it depends on the frequency of use.)
- Keep the button-type battery out of the reach of children.
- Make sure you insert the battery with its poles correctly aligned.

CAUTION

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the equipment manufacturer. Discard used batteries according to manufacturer's instructions.



圖使用遥控器

¶ 將[POWER]開關設置在[CAMERA](攝錄 影機)或[VCR](錄放影機)。

當您打算進行拍攝操作時,請切換至[CAMERA]:當您打算進行播放操作時,請切換至[VCR]。

2 將遥控器對準攝錄影機上的遥控感應器, 然後按相應的鈕。

離攝錄影機的距離:小於5米。 角度:中心軸上、下、左和右的約15°。

- 上述操作範圍適於在室內使用遙控器。當在室外或強烈光源之下進行使用時,即使處於上述範圍之內,遙控器也可能無法正常工作。
- 在1米的範圍之內,從側面(液晶顯示監視器側)也可使 用遙控器。

選擇遥控器的狀態

當同時使用兩台攝錄影機時,請選擇不同的遙控器狀態,以便進行分別操作。

- 如果攝錄影機上的遙控器狀態設定於遙控器不配時。 [REMOTE](遙控) 指示會出現。
- 更換了遙控器的鈕扣式電池時,會自動使其復原至 「VCR1」狀態。
- 新將菜單上的[REMOTE]項,設置在需要的遙控器狀態。(→ 132)

在攝錄影機上進行設定時:

將[CAMERA MENU3]菜單或[VCR MENU2]菜單上的 [REMOTE]設置在在需要的遙控器狀態。

在遥控器上進行設定時:

[VCR1] 同時按[►]鈕和[團]鈕。 **⑤** [VCR2] 同時按[▲]鈕和[團]鈕。 **②**

ENGUSH

- Using the Remote Controller
- Set the [POWER] Switch to [CAMERA] or [VCR].

When you want to perform recording operations, set the switch to [CAMERA]; and when you want to perform playback operations, set it to [VCR].

Aim the Remote Controller at the Remote Control Sensor on the Movie Camera and press the appropriate button.

Distance to the Movie Camera: Less than 5 metres.

Angle: Approximately 15° up, down, left and right from centre axis.

- The operative range described above is valid for using the Remote Controller indoors.
- When using it outdoors or under strong lights, it may not work correctly even within the above range.
- •Within a distance of about 1 metre, it is also possible to use the Remote Controller from the side (LCD Monitor side).

Selecting the Remote Controller Mode

When using two Movie Cameras at the same time, selecting different Remote Controller Modes makes it possible to operate them separately.

- •If the Remote Controller Mode set on the Movie Camera and on its Remote Controller are not matched, the [REMOTE] Indication appears.
- Replacing the button-type battery in the Remote
 Controller automatically resets it to the [VCR1] Mode.
- Set [REMOTE] on the Menu to the desired Remote Controller Mode. (→ 132)

Setting to Be Made on the Movie Camera:

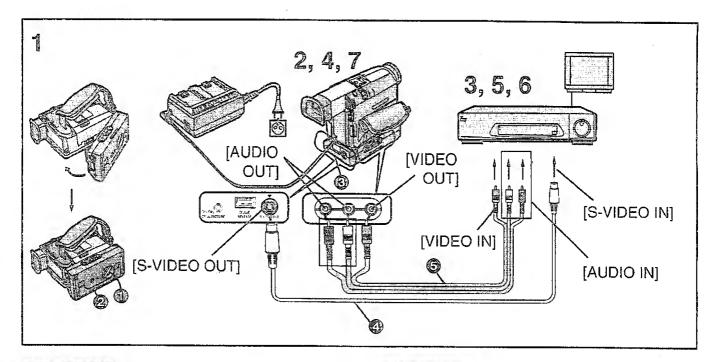
Set [REMOTE] on the [CAMERA MENU3] Menu or on the [VCR MENU2] Menu to the desired Remote Controller Mode.

Setting to Be Made on the Remote Controller:

[VCR1]: Press the [▶] Button and [■] Button

simultaneously.

[VCR2]: Press the [◄] Button and [█] Button simultaneously. ②



複製在S-VHS (VHS) 錄影帶上 (拷貝)

安裝了輸出端子箱時,便可將該攝錄影機拍攝的錄影帶拷貝在S-VHS或VHS錄影帶上。

如上圖所示,連接了所有的設備之後,請進行下列操作:

1 用螺絲
,將輸出端子箱安裝在攝錄影機的底部。

拉出輸出端子箱下面的支撐腳®,將更容易觀賞液晶顯 示監視器上播放的圖像。

2 [攝錄影機]

插入拍攝好的錄影帶。

- 3 [錄放影機] 裝上保險片齊全的未拍錄影帶。
- **4** [攝錄影機] 按放影[▶]鈕·開始放影。
- 5 [錄放影機] 按錄影鈕·開始錄影。
- **6** [錄放影機] 按暫停或停止鈕,停止錄影。
- **7** [攝錄影機] 按停止[圖]鈕,停止放影。
- ◎ 輸出端子箱
- O S影像纜線
- ❸ AV纜線
- 拷負之前,請按遙控器上的[OSD](屏幕顯示) 銀 (→98),使指示消失。否則,計數器指示和功能指示等 也將被錄在錄影帶」。

ENGLISH

Copying onto an S-VHS (VHS) Cassette (Dubbing)

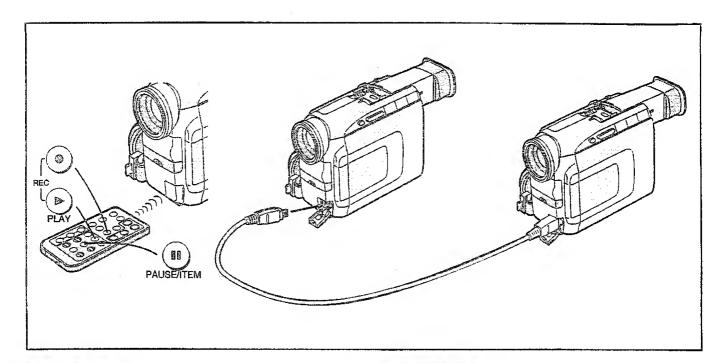
If you attach the Output Terminal Box, you can copy cassettes recorded from this Movie Camera onto S-VHS or VHS cassettes.

After connecting all equipment as shown above, perform the following operations.

Attach the Output Terminal Box to the underside of the Movie Camera with the Screw .

Extending the Support Leg from the underside of the Output Teminal Box makes it easier to view the playback picture on the LCD Monitor.

- [Movie Camera]
 Insert the recorded cassette.
- 3 [VCR]
 Insert an unrecorded cassette with intact erasure prevention tab.
- [Movie Camera] Press the Playback Button [▶] to start playback.
- VCR]
 Press the Recording Button to start recording.
- [VCR]
 Press the Pause or Stop Button to stop recording.
- [Movie Camera]
 Press the Stop Button [] to stop playback.
- Output Terminal Box
- S-Video Cable
- AV Cable
- Before dubbing, press the [OSD] Button (→ 98) on the Remote Controller so that no indications appear.
 Otherwise, the Counter Indication and function indications are also recorded onto the cassette.



與數位影像設備配合使用(錄影)

如果您用 DV (數位影像) 纜線 VW-CD1E (另售品),將該 攝錄影機與其它具備 DV 輸入/輸出端子 (i LINK) 的數位影像設備 (例如同樣類型的另一台攝錄影機) 連接在一起時, 便可用數位格式進行高質量的國像和聲音速員。

↑ [放影機]

插入已拍錄影帶,將[POWER]開關設置在[VCR](錄放影機)。

2 [錄影機]

裝入您將要進行拷貝的錄影帶,將[POWER]開關設置在[VCR]。

③ [放影機]

按放影[▶|鈕・開始放影。

4 [録影機]

一邊按[REC] (錄影) 鈕·一邊按[PLAY] (放影) 鈕 (都在 遙控器上)。 錄影即開始。

停止錄影時

按暫停[88]或停止[國]鈕,可停止錄影。

- 不管錄影機菜單上的[AUDIO REC] (錄製) 項的設定如何,將依放影機中錄影帶的相同音類錄製狀態進行拷目。
- 畫面下部可能會失真。但這並非功能故障,對實際錄製 沒有任何影響。
- 如果未連接DV纜線,而開始拷貝時,將顯示錯誤信息, 且可能會錄製一會兒的任意影像。
- 當放影機播放磁帶上未錄影的部分時,將錄製任意圖像。

-- ENGLISH

Using with Digital Video Equipment (Recording)

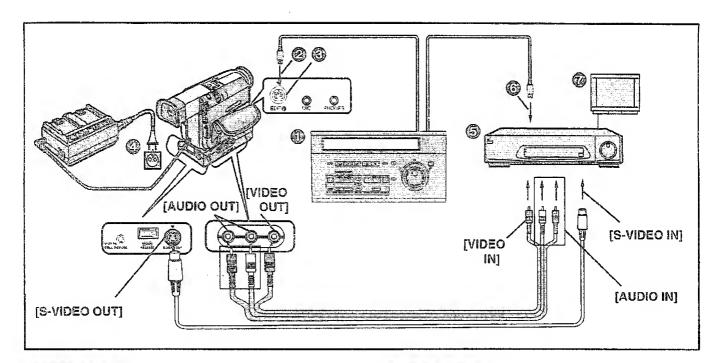
If you connect this Movie Camera with other Digital Video equipment (for example another Movie Camera of the same type) equipped with DV Input/Output Terminal (i.LiNK) using the DV Cable VW-CD1E (optional), you can dub high-quality picture and sound in the digital format.

- [Playback Unit]
 Insert the recorded cassette and set the [POWER] switch to [VCR].
- [Recording Unit]
 Insert a cassette onto which you want to perform dubbing and set the [POWER] switch to [VCR].
- 3 [Playback Unit] Press the Playback Button [▶] to start playback.
- [Recording Unit]
 While pressing the [REC] Button, press the
 [PLAY] Button (both on the Remote Controller).
 Recording starts.

Stopping Recording

Press the Pause Button [11] or the Stop Button [12] to stop recording.

- Regardless of the setting for [AUDIO REC] on the Menu of the recording unit, dubbing is performed in the same audio recording mode as that of the cassette in the playback unit.
- The lower part of the picture may be distorted. However, this is not a malfunction and does not affect the actual recording.
- If you start dubbing without connecting the DV Cable, an Error Message appears, and a random picture may be recorded for a short moment.
- •If the playback unit plays back an unrecorded part of the tape, a random picture is recorded.



借助編輯控制器進行複製

如果您將攝錄影機連接至具備 5 針編輯插孔的編輯控制器時,可用編輯控制器來進行該攝錄影機的放影功能控制。 (必須連接輸出端子籍[AV ONE TOUCH STATION]。) 如上圖所示,請在連接了所有其它設備之後,再進行必要的 操作。

連接編輯控制器VW-EC500E (選購品)時

- 需要有具備5針編輯插孔的錄放影機。
- 當您將VW-EC500E連接至攝錄影機時,有必要對VW-EC500E進行調節。有關編輯控制器的操作,請參看其使用説明書。

用時間編碼進行編輯時

按遙控器上的[DISPLAY] (顯示) 鈕·使時間編碼出現。

- 當顯示出時間編碼時,將從編輯插孔輸出時間編碼信號。
- ◎ 當顯示出計數器指示時,將輸出線性磁帶計數器信號。
- ② 至編輯插孔
- 3 編輯插孔
- 4 連接交流轉接器
- 錄放影機(非附件)
- 6 至編輯插孔
- 葡萄視機(非附件)

ENGLISH

Copying with the Help of an Editing Controller

If you connect the Movie Camera to an Editing Controller equipped with 5-pin Edit Socket, this Movie Camera's playback functions can be controlled from the Editing Controller.

(The Output Terminal Box [AV ONE TOUCH STATION] is necessary.)

After connecting all equipment as shown above, perform the necessary operations.

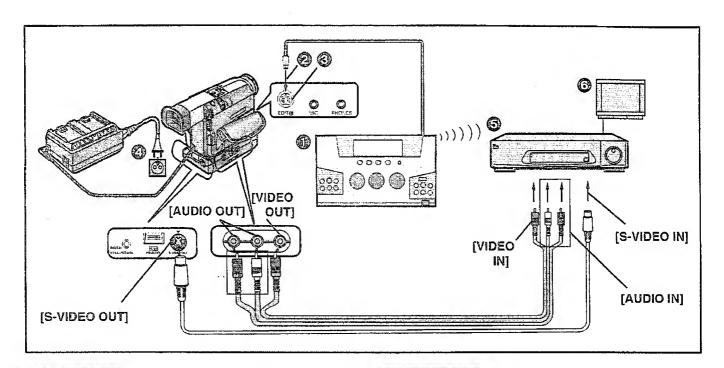
When Connecting the Editing Controller VW-EC500E ((optional)

- OA VCR equipped with 5-pin Edit Socket is necessary.
- •When you connect the VW-EC500E to the Movie Camera, an adjustment on the VW-EC500E is necessary. For the operation of the Editing Controller, refer to its operating instructions.

When Editing with Time Code

Press the [DISPLAY] Button on the Remote Controller to make the Time Code appear.

- •When the Time Code is displayed, the Time Code Signal is output from the Edit Socket.
- •When the Counter Indication is displayed, the Linear Tape Counter Signal is output.
- 2 To Edit Socket
- Edit Socket
- Connect the AC Adaptor.
- S VCR (not supplied)
- To Edit Socket
- TV (not supplied)



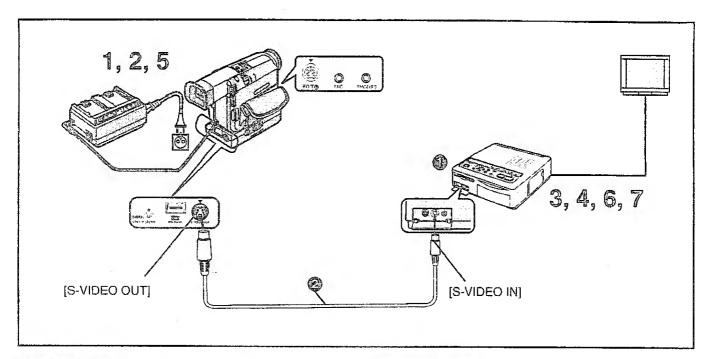
連接編輯控制器VW-EC1E(選購品)時

- 當您使用編輯控制器 VW-EC1E 時,不必將其連接至 錄放影機上的編輯插孔,因為可以用紅外線遙控器來進 行錄放影機的操作。因此,也可在不具備編輯插孔的錄 放影機上進行編輯。
- 有關編輯控制器的操作,請參看其使用説明書。
- ❷ 至編輯插孔
- ⑧ 編輯插孔
- @ 連接交流轉接器
- ₩ 錄放影機(非附件)
- ◎ 電視機(非附件)

ENGLISH

When Connecting the Editing Controller VW-EC1E (optional)

- •When you use the Editing Controller VW-EC1E , it is not necessary to connect it to the Edit Socket on the VCR, as the VCR's operation is performed via infrared remote control. Therefore, editing is also possible onto VCRs not equipped with an Edit Socket.
- For the operation of the Editing Controller, refer to its operating instructions.
- To Edit Socket
- **8** Edit Socket
- Connect the AC Adaptor.
- S VCR (not supplied)
- TV (not supplied)



中,交

該攝錄影機與影像打印機的配合使用

攝錄影機:

- 1 將[POWER]開關設置在[VCR](錄放影機)。
 - 一邊按住中心鈕,一邊將該開闢滑至[VCR]。
- 2 插入已拍錄影帶。

影像打印機:

- 3 打開影像打印機。
- 4 如果影像打印機裝備了數位圖像穩定功能和/或動量/靜畫狀態,請根據正在輸入的圖像來調節這些功能。

攝錄影機:

5 按放影[▶]鈕。

影像打印機:

- 6 將圖像儲存在記憶中。
- 7 開始打印。

有關影像打印機操作的具體細節,請參閱其使用説明書。 **❷** S影像纜線

ENGLISH!

Using the Movie Camera with a Video Printer

If you connect the Movie Camera to a Video Printer (1), you can print still pictures from scenes recorded with the Movie Camera.

Movie Camera:

- Set the [POWER] Switch to [VCR].
 While pressing the centre button, slide the switch to [VCR].
- 2 Insert a recorded cassette.

Video Printer:

- 3 Turn the Video Printer on.
- If the Video Printer is equipped with Digital Image Stabilizer Function and/or Moving/ Still Picture Mode, adjust them according to the picture being input.

Movie Camera:

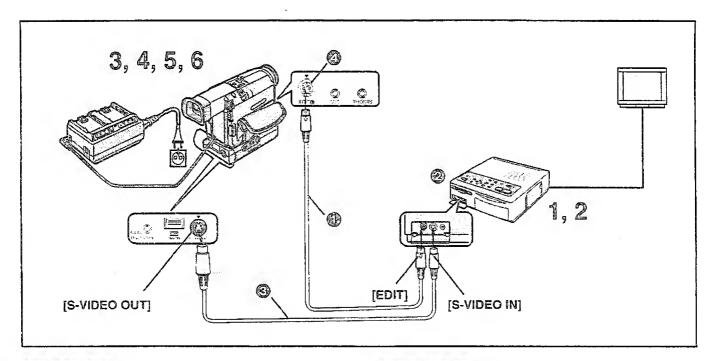
5 Press the Play Button [▶].

Video Printer:

- 6 Store the image in memory.
- 7 Start printing.

For details about the operation of the Video Printer, read its operating instructions.

S-Video Cable



· 神》文

使用自動打印功能 (AUTOPRINT)

如果您將攝錄影機連接至具備 5 針編輯插孔的影像打印機 ❷ 時,使可用自動打印功能,自動打印用拍照功能所拍攝 的靜止圖像。

影像打印機:

- 1 打開影像打印機。
- 2 根據輸入信號進行影像打印機的必要設定。

攝錄影機:

- 3 將[POWER]開關設置在[VCR](錄放影機)。
 - 一邊按住中心鎧, 邊將該開覇滑至[VCR]。
- 尋影您打算用自動打印功能進行打印的第 一幀靜止圖像。

如果您想要打印錄影帶上拍攝的所有圖像時,請將錄影 帶倒轉到開頭。

- 5 按[MENU](菜單)鈕。
- 6 將[VCR MENU2]菜單上的[AUTOPRINT] (自動打印) 設置在[ON]。

自動打印即開始。

- 如果您想中途停止自動打即時,請按攝錄影機上的停止[圖]鈕。
- 編輯續線 VW-K5E (選購品)
- ❸ S影像纜線
- ☎ 編輯插孔

ENGLISH

Using the Automatic Printing Function (Autoprint)

If you connect the Movie Camera to a Video Printer equipped with 5-pin Edit Socket, you can use the Autoprint Function to automatically print all still pictures recorded in the Photoshot Function.

Video Printer:

- Turn the Video Printer on.
- 2 Make the necessary settings on the Video Printer according to the input signal.

Movie Camera:

- Set the [POWER] Switch to [VCR].
 While pressing the centre button, slide the switch to [VCR].
- Search for the first still picture from which you want to start printing with the Autoprint Function.

If you want to print all still pictures recorded on the cassette, rewind the tape to its beginning.

- 5 Press the [MENU] Button.
- Set [AUTOPRINT] on the [VCR MENU2]
 Menu to [ON].
 Automatic printing starts.

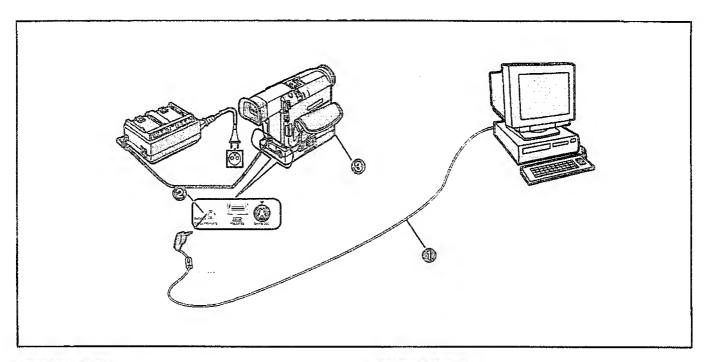
• If you want to stop the automatic printing in the middle, press the Stop Button [25] on the Movie Camera.

- Edit Cable VW-K5E (optional)
- S-Video Cable
- Edit Socket

- 當影像打印機的冷卻功能啟動,且打印速度減慢時,自動打印可能會停止。此種情況下,請再次將[VCR MENU2]菜單上的[AUTOPRINT](自動打印)設置在[ON]。
- 如果您在打印中更換了打印帶或紙張時,同樣圖像可能 會打印兩張。
- 若在拍照狀態下連續拍攝了靜止圖像時,打印中可能會 跳越某些圖像。
- 將圖像儲存在影像打印機之前,請按摄錄影機的遙控器 上的[OSD] (屏幕顯示) 鈕 (→98),使圖像不出現指示。
 否則,計數器指示和其它功能指示也會打印在圖像中。
- ▼ 下列情況下,在用自動打印功能進行打印中,某些圖像可能會被跳越而過。
 - 當您打印用其它牌號的攝錄影機、並在拍照狀態下拍攝的靜止圖像時。
 - 如果您在拍照狀態下,於拍攝兩頓靜止圖象之間幾次(3次以上)打開攝錄影機時。
 - ◆ 當您在錄影帶上以前錄有拍照圖像的相同位置,以拍照 狀態來拍攝靜止圖像時。
 - 當您在拍攝狀態下,於拍攝兩頓靜止圖像之間選擇了不同拍攝速度(SP/LP)時。
 - 在將要打印的第一幀拍照圖像時。

ENGLISH.

- When the cooling function of the Video Printer activates and the printing speed slows down, automatic printing may stop. In this case set [AUTOPRINT] on the [VCR MENU2] Menu to [ON] again.
- If you replace the ink cassette or paper during printing, the same picture may be printed twice.
- If still pictures are recorded successively in the Photoshot Mode, some pictures may be skipped during printing.
- ●Before storing an image in memory on the Video Printer, press the [OSD] Button (⇒ 98) on the Remote Controller of the Movie Camera so that no indications appear in the picture. Otherwise, the Counter Indication and other function indications are also printed in the picture.
- In the following cases, some pictures may be skipped when printing with the Auto Print Function.
- When you print still pictures recorded in the Photoshot Mode on a video camera of another brand.
- If you turn the Movie Camera on and off several times (3 times or more) between recording two still pictures in the Photoshot Mode.
- When you record a still picture in the Photoshot Mode on the same part of a cassette where a Photoshot picture was recorded before.
- When you select a different recording speed (SP/LP) between the recording of two still pictures in the Photoshot Mode.
- · At the first Photoshot picture to be printed.



攝錄影機與微電腦的配合使用

用於數位影像攝錄影機的個人微電腦連接套件 VW-DTA1E (選購品), 使攝錄影機與個人微電腦的連接和將靜止圖像傳 送給微電腦成為可能。(也需要連接輸出端子箱[AV ONE TOUCH STATION[.)

微電腦系統要求

DV STUDIO (數位影像演播室) 可被裝入能夠運行微軟® 窗口®95的PC/AT個人微電腦中。

對應機器: 具備80486D×4或更好處理器的個人微

電腦(推薦Pentium/M或更好)

圖形卡: 建議採用真色(約16.7百萬色)

(即使用256色也可進行操作)

安裝內存:

16MB或以上(推薦32MB或以上)

空餘硬盤容量: 至少10MB 磁盤驅動器: CD-ROM驅動器

串行端口: RS-232C (D-sub 9針)

其它要求: 鼠標器

將攝錄影機連接至微電腦時,請使用個人微電腦連接套件所 附帶的特殊接口轉接器 (1)。

- 使用個人微電腦連接套件時,必須將攝錄影機上的 [POWER]開關設置在[VCR](錄放影機)。
- 您打算裝入微電腦應用程序上的圖像,應該用SP狀態拍
- 拍攝時,要注意時間編碼從錄影帶開始起,一直不被中
- 窗口95是美國微軟有限公司的商標。
- 使用説明書中的所有其它公司和產品名稱都是其相應公 司的商標。
- 2 數位靜畫端子
- 動出端子籍[AV ONE TOUCH STATION]

ENGLISH

Using the Movie Camera with a Computer

The Personal Computer Connection Kit VW-DTA1E (optional) for Digital Video Cameras makes it possible to connect the Movie Camera to a computer and transmit still video images to it. (The Output Terminal Box [AV ONE TOUCH STATION is also necessary.)

Computer System Requirements

DV STUDIO can be installed in a PC/AT personal computer which can run Microsoft® Windows® 95.

Compatible machines: Personal computer with

80486DX4 or higher CPU (Pentium™ or higher

recommended)

Graphic card: True Color (approx. 16.7 million

colours) recommended (operation also possible even

with 256 colours)

Installed memory: 16 MB or more (32 MB or more

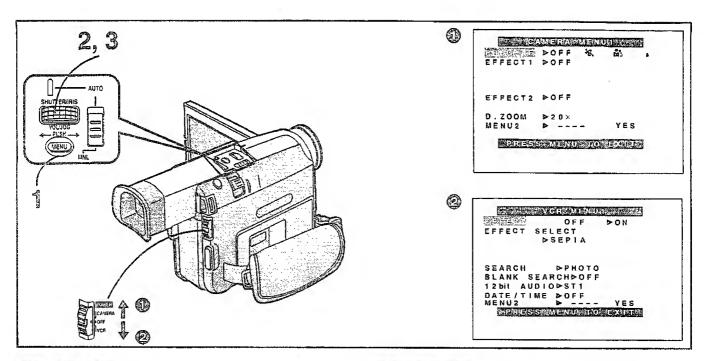
recommended) Free hard disk space: At least 10 MB

Disk drive: CD-ROM drive Serial port: RS-232C (D-sub 9pin)

Mouse Other requirements:

To connect the Movie Camera to the computer, use the special Interface Adaptor (1) contained in the Personal Computer Connection Kit.

- When using the Personal Computer Connection Kit, the [POWER] Switch on the Movie Camera must be set to
- Pictures that you intend to import into computer applications should be recorded in the SP Mode.
- When recording, take care that the Time Code is uninterrupted from the beginning of the tape.
- U.S.A.
- All other company and product names in the operating instructions are trademarks of their respective corporations.
- Digital Still Picture Terminal
- -124- Output Terminal Box [AV ONE TOUCH STATION]



中中文

使用菜單屏幕

該攝錄影機可在菜單上顯示各種功能的設定情況,以便能簡 單地選擇需要的功能和設定值。

- **1 按[MENU](菜單)鈕。** 即出現菜單。
- ② 轉動[PUSH](下按)環,選擇要設定的項目。

轉動[PUSH]環,可改變高光項目。

3 按[PUSH]環,將選擇的項目設定為需要的 狀態。

每次按該環,都會使光標[▶]移到下一個狀態。

顯示攝錄影機狀態菜單 ② 時

在拍攝暫停狀態下,按[MENU]鈕。

- 在菜單顯示中,將無法進行拍攝。
- ◎ 拍攝中 將無法顯示菜單。

顯示錄放影機狀態菜單 @ 時

當[POWER]開關被設置在[VCR]時,按[MENU]鈕。

- 在菜單顯示中,將無法進行放影。
- 拍攝中,將無法顯示菜單。

退出菜單時

再次按[MENU]鈕。

菜單上的設定操作須知

當您關閉攝錄影機時,您在菜單上選擇的設定將得到保存。 然而,在電源關閉之前,若從攝錄影機拔掉供電裝置(電池 或交流轉接器)時,選擇的設定將無法得到保存。

ENGLISH

Using the Menu Screen

This Movie Camera displays the settings of various functions in Menus to make it easy to select the desired functions and settings.

- Press the [MENU] Button.
 The Menu appears.
- Turn the [PUSH] Dial to select the item to be set.

Turning the [PUSH] Dial changes the highlighted item.

Press the [PUSH] Dial to set the selected item to the desired mode.

Every press moves the cursor [>] to the next mode.

Displaying the Camera Mode Menu Press the [MENU] Button in the Recording Pause Mode

- While the Menu is displayed, recording is not possible.
- During recording, displaying the Menu is not possible.

Displaying the VCR Mode Menu Press the [MENU] Button when the [POWER] Switch is set to [VCR].

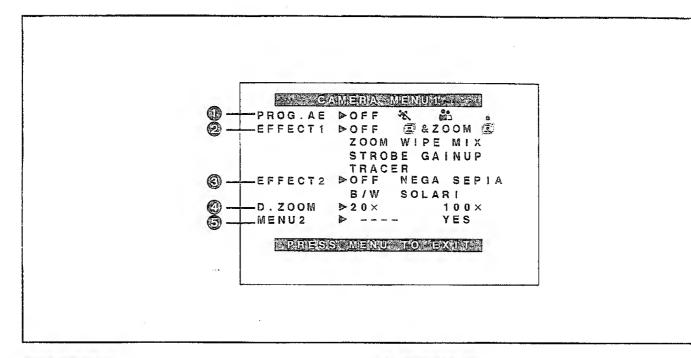
- While the Menu is displayed, playback is not possible.
- During playback, displaying the Menu is possible.

Exiting the Menu

Press the [MENU] Button again.

Note About the Settings Made on the Menu

The settings you selected on the Menu are maintained when you turn the Movie Camera off. However, if you disconnect the power supply unit (Battery or AC Adaptor) from the Movie Camera before turning it off, the selected settings may not be maintained.



菜單功能

菜單圖示為解釋功能所用。實際菜單將所有不同。

攝錄影機狀態菜單 [CAMERA MENU1]

- ① 自動曝光狀態[PROG.AE](→ 68,70)
- ② 數位效果 1[EFFECT1](→ 72,74)
- ⑤ 數位效果 2[EFFECT2](→ 72,74)
- ② 數位變焦[D.ZOOM](→ 36)
- ⑤ 進入菜單 2[MENU2](→ 130)
 如果您將[MENU2]設置在[YES]時,菜單將變為 [CAMERA MENU2]菜單。

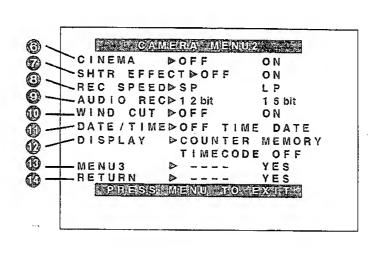
ENGLISH:

Menu Functions

The illustrations of the menus are intended for explaining the functions; the actual menus look somewhat different.

Camera Mode Menu [CAMERA MENU1]

- Auto Exposure Mode [PROG.AE] (→ 68, 70)
- ② Digital Effects 1 [EFFECT1] (→ 72, 74)
- Digital Effects 2 [EFFECT2] (→ 72, 74)
- Digital Zoom [D.ZOOM] (→ 36)
- Advancing to Menu 2 [MENU2] (→ 130)
 If you set [MENU2] to [YES], the Menu changes to the [CAMERA MENU2] Menu.



。 中 交

攝錄影機狀態菜單(接上頁) [CAMERA MENU2]

- 電影般格式拍攝[CINEMA](→ 40)
- @ 快門效果[SHTR EFFECT](→ 38)
- ③ 錄影速度狀態[REC SPEED](→ 24)
- ② 音頻錄製狀態[AUDIO REC](→ 94)
- ⑥ 風聲緩和器[WIND CUT]

如果您將[WIND CUT]設置在[ON]時,風吹麥克風的噪音 將得到減少。然而,對低音範圍的再生也會有輕微的不 利影響。

- ⑩ 日期和時間指示[DATE/TIME](→ 44)
- 分 計數器顯示狀態[DISPLAY](→ 174)
- ⑥ 進入菜單 3[MENU3](→ 132)如果您將[MENU3]設置在[YES]時,菜單將變為 (CAMERA MENU3]菜單。
- ◎ 回到以前的菜單時[RETURN]

 如果您將[RETURN] 設置在[YES]時,菜單將回到
 [CAMERA MENU1]菜單。

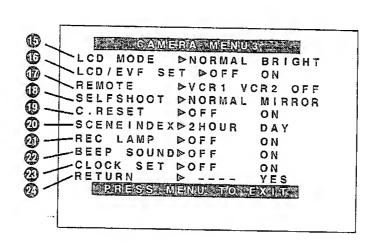
ENGLISH

Camera Mode Menu (Continued) [CAMERA MENU2]

- (a) Cinema-like Format Recording [CINEMA] (→ 40)
- Shutter Effect [SHTR EFFECT] (→ 38)
- Recording Speed Mode [REC SPEED] (→ 24)
- Audio Recording Mode [AUDIO REC] (→ 94)
- Wind Noise Reduction [WIND CUT]

 If you set [WIND CUT] to [ON], the noise of the wind hitting the microphone is reduced. However, this also causes a slight deterioration of the sound reproduction in the bass range.
- Date and Time Indication [DATE/TIME] (→ 44)
- Counter Display Mode [DISPLAY] (→ 174)
- Advancing to Menu 3 [MENU3] (→ 132)
 If you set [MENU3] to [YES], the Menu changes to the [CAMERA MENU3] Menu.
- Returning to the Previous Menu [RETURN]

 If you set [RETURN] to [YES], the Menu changes back to the [CAMERA MENU1] Menu.



攝錄影機狀態菜單(接上頁) [CAMERA MENU3]

- ⑥ 液晶顯示監視器照明狀態[LCD MODE](→ 140)
- ⑩ 液晶顯示監視器和電子尋像器調節 [LCD/EVF SET](→ 140)
- ⑩ 自拍[SELFSHOOT](→ 34)
- ② 計數器復原[C.RESET](→ 166) 可使計數器復原至零。 然面、時間編碼不能被復原。
- ⑩ 場景索引狀態[SCENEINDEX](→ 64)
- 録影燈[REC LAMP](→ 30)
- ② 嗶聲音響[BEEP SOUND]

如果您將[BEEP SOUND]設置在[ON]時,在下列情況 下,將發出確認 / 報警嗶聲音響:

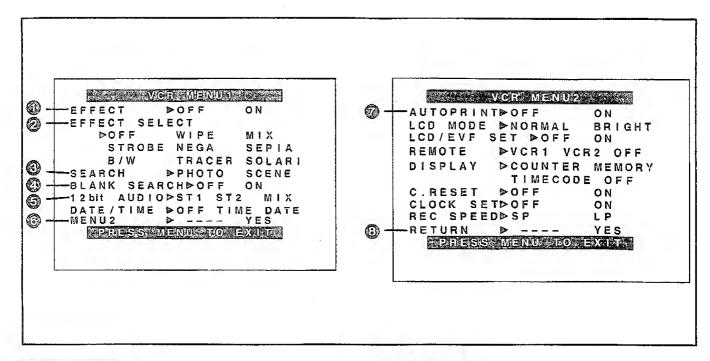
- 當您打開攝錄影機時。
- 一當您開始拍攝和暫停拍攝時。
- 當拍攝中錄影帶到達其結尾,或在您試圖開始拍攝而 錄影帶到達其結尾時。
- 一 當您在未插入錄影帶的情況下,試圖開始拍攝時。
- 一 當您插入一盒安全滑頭被設置在[SAVE]的錄影帶,且 試圖開始拍攝時。
- 一 當攝錄影機內已經形成濕氣時。
- ② 日期和時間設定[CLOCK SET](→ 136)
- ② 回到以前的菜單時[RETURN] 如果您將[RETURN]設置在[YES]時,菜單將回到 [CAMERA MENU2]菜單。

ENGLISH

Camera Mode Menu (Continued) [CAMERA MENU3]

- (→ 140) LCD Lighting Mode [LCD MODE]
- CD and Finder Adjustment [LCD/EVF SET] (→ 140)
- ® Remote Controller Mode [REMOTE] (→ 108)
- Self-Recording [SELFSHOOT] (→ 34)
- Counter Reset [C.RESET] (→ 166)
 To reset the counter to zero.
 However, the Time Code cannot be reset.
- ② Scene Index Modé [SCENEINDEX] (→ 64)
- Recording Lamp [REC LAMP] (→ 30)
- Beep Sound [BEEP SOUND] If you set [BEEP SOUND] to [ON], a confirmation/ alarm beep sound is emitted in the following cases:
 - -When you turn on the Movie Camera.
 - -When you start recording and pause recording.
 - -When the tape reaches its end during recording, or when the tape has reached its end and you try to start recording.
 - When you try to start recording without having inserted a cassette.
 - -When you insert a cassette with its erasure prevention slider set to [SAVE] and try to start recording.
 - -When condensation has formed inside the Movie Camera.
- Date and Time Setting [CLOCK SET] (→ 136)
- Returning to the Previous Menu [RETURN]

 If you set [RETURN] to [YES], the Menu changes back to the [CAMERA MENU2] Menu.



錄放影機狀態菜單 [VCR MENU1]

- ⑩ 數位效果啟動/關閉[EFFECT](→ 90)
- ② 數位效果選擇[EFFECT SELECT](→ 90)
- 会 索引尋影狀態[SEARCH](⇒ 60,62,64)
- @ 空白尋影[BLANK SEARCH](→ 58)
- ⑤ 音頻輸出狀態[12bit AUDIO](-> 94)
- ⑥ 進入菜單 2[MENU2] 如果您將[MENU2]設置在[YES]時,菜單將回到[VCR MENU2]菜單。

[VCR MENU2]

- @ 自動打印[AUTOPRINT](→ 120)
- 回到以前的菜單時[RETURN]如果您將[RETURN]設置在[YES]時,菜單將回到 [VCR MENU1]菜單。
- 錄放影機狀態菜單上的所有其它項目,與攝錄影機狀態 菜單上的相同。

ENGLISH

VCR Mode Menu [VCR MENU1]

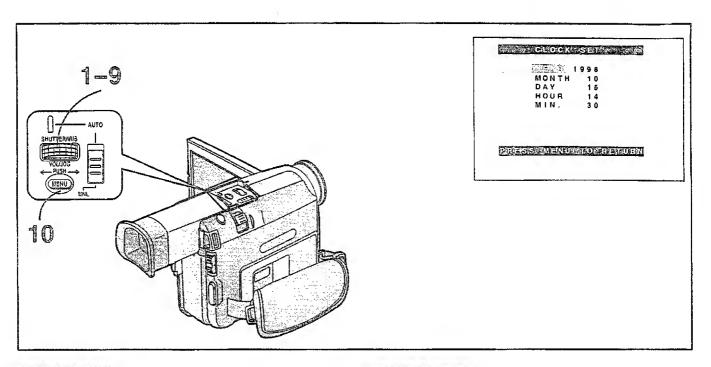
- Digital Effect On/Off [EFFECT] (→ 90)
- ② Digital Effect Selection [EFFECT SELECT] (→ 90)
- (3) Index Search Mode [SEARCH] (→ 60, 62, 64)
- Blank Search [BLANK SEARCH] (→ 58)
- Audio Output Mode [12bit AUDIO] (→ 94)
- Advancing to Menu 2 [MENU2]

 If you set [MENU2] to [YES], the Menu changes to the [VCR MENU2] Menu.

[VCR MENU2]

- Automatic Printing [AUTOPRINT] (→ 120)
- (3) Returning to the Previous Menu [RETURN]

 If you set [RETURN] to [YES], the Menu changes back to the [VCR MENU1] Menu.
- All other items on the VCR Mode Menus are the same as on the Camera Mode Menus.



設定日期和時間

如果您將[CAMERA MENU3]菜單或[VCR MENU2]菜單上的 [CLOCK SET](時鐘設定) 設置在[ON]時,會出現上圖所示 的菜單顯示。

例如: 將時鐘設定為 1998 年 10 月 15 日 14:30 時。

- 轉動[PUSH]環,設定至[1998]。年數將以下列順序改變:1990-1991-...→2089-1990-...
- 2 按[PUSH]環,選擇[MONTH](月)。
- 3 轉動[PUSH]環,設定至[10]。
- ♣ 按[PUSH]環,選擇[DAY](日)。
- 5 轉動[PUSH]環,設定至[15]。
- 6 按[PUSH]環,選擇[HOUR](小時)。
- 7 轉動[PUSH]環,設定至[14]
- 8 按[PUSH]環,選擇[MIN.](分鐘)。
- 9 轉動[PUSH]環,設定至[30]
- 10 按[MENU](菜單) 鈕,結束日期和時間 設定。

將從[00]秒開始進行時鐘操作。

ENGLISH

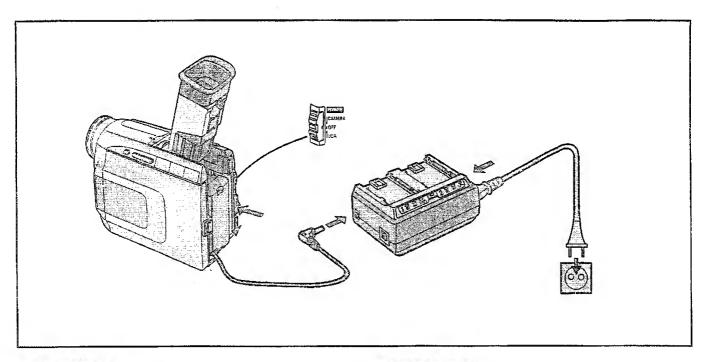
Setting the Date and Time

If you set [CLOCK SET] either on the [CAMERA MENU3] Menu or [VCR MENU2] Menu to [ON], the Menu shown above appears.

For example: To set the clock to 15th October 1998, 14:30.

- Turn the [PUSH] Dial to set to [1998]. The years change in the following order: 1990→1991→...→2089→1990→...
- Press the [PUSH] Dial to select [MONTH].
- Turn the [PUSH] Dial to set to [10].
- 4 Press the [PUSH] Dial to select [DAY].
- 5 Turn the [PUSH] Dial to set to [15].
- Press the [PUSH] Dial to select [HOUR].
- Turn the [PUSH] Dial to set to [14].
- 8 Press the [PUSH] Dial to select [MIN.].
- 9 Turn the [PUSH] Dial to set to [30].
- 10 Press the [MENU] Button to finish the date and time setting.

The operation of the clock starts from [00] seconds.



申 文

給内藏鋰電池充電

內藏鋰電池是用於維持時鐘運轉的。當出現[@]指示時,說明內藏電池已經耗盡。請用下列方法給耗盡的電池充電,並在充電之後,進行日期和時間設定。

- 1 將交流轉接器連接至攝錄影機,和交流主插座。(→) 16)
- 2 關閉攝錄影機的電源。
- **③ 使攝錄影機處於該狀態約4小時。** 內藏鋰電池充電4小時後,可為時鐘供電約3個月。

ENGLISH

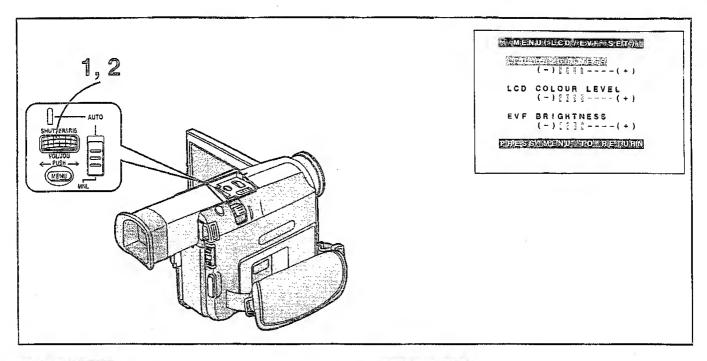
Charging the Bullt-In Lithium Battery

The built-in battery maintains the operation of the clock. When the [🕞] Indication appears, the built-in lithium battery is discharged. Charge the discharged battery in the following way and after charging is finished, set the date and time.

- Connect the AC Adaptor to the Movie Camera and to an AC mains socket.

 (→ 16)
- 2 Leave the Movie Camera turned off.
- 3 Leave the Movie Camera in this condition for approximately 4 hours.

After charging for 4 hours, the built-in lithium battery can power the clock for approximately 3 months.



調節液晶顯示監視器

將[CAMERA MENU3]菜單或[VCR MENU2]菜單上[LCD/EVF SET](液晶顯示監視器狀態) 設定為[ON]時,可顯示下列項目。

液晶顯示監視器亮度[LCD BRIGHTNESS]

可調節液晶顯示監視器的亮度。條棒指示分為8段。表示的 垂直條棒指示越多,屏幕將越亮。

液晶顯示監視器色彩電平[LCD COLOUR LEVEL]

可調節液晶顯示監視器的色飽和度。條棒指示分為8段。表示的垂直條棒指示越多,色彩將越強。

電子尋像器亮度[EVF BRIGHTNESS]

可調節電子尋像器的亮度。條棒指示分為8段。表示的垂直 條棒指示越多,屏幕將越亮。

- 1 按[PUSH]環,選擇您打算調節的項目。每次按該鈕,可變為下一個項目。
- 2 轉動[PUSH]環。旋轉該環,可增加或減少 條棒指示的垂直條棒。

如果您使用遙控器進行調節時,請按[ITEM](項目) 鈕,然後按[SET]鈕,調節亮度。條棒數位將逐漸朝右端增加,然後將再次減少。

增強整個液晶顯示監視器的亮度時

將[CAMERA MENU3]菜單或[VCR MENU2]菜單上[LCD MODE](液晶顯示監視器狀態) 設定為[BRIGHT](亮度)。 ◎ 這些調節,將不會對實際拍攝的圖像有任何影響。

ENGLISH

Adjusting the LCD Monitor

If you set [LCD/EVF SET] either on the [CAMERA MENU3] Menu or [VCR MENU2] Menu to [ON], the following items are displayed.

LCD Brightness [LCD BRIGHTNESS]

To adjust the brightness of the LCD screen. The Bar Indication is divided into 8 steps. The more vertical bars are shown, the brighter is the screen.

LCD Colour Level [LCD COLOUR LEVEL]

To adjust the colour saturation of the LCD screen. The Bar Indication is divided into 8 steps. The more vertical bars are shown, the stronger are the colours.

Finder Brightness [EVF BRIGHTNESS]

To adjust the brightness of the Finder. The Bar Indication is divided into 8 steps. The more vertical bars are shown, the brighter is the screen.

- Press the [PUSH] Dial to select the item that you want to adjust.
- Turn the [PUSH] Dial. Turning it increases or decreases the number of vertical bars of the Bar Indication.

If you use the Remote Controller for this adjustment, press the [ITEM] Button and then adjust the brightness by pressing the [SET] Button. The Number of bars gradually increases toward the right end, and then they decreases again.

Increasing the Brightness of the Whole LCD Monitor Screen

Set [LCD MODE] either on the [CAMERA MENU3] Menu or [VCR MENU2] Menu to [BRIGHT].

These adjustments have no influence on the actually recorded picture.

L ED SEA

使用注意事項

在兩雪之中或海邊上使用時,小心勿讓攝錄影機中進水。

◎ 攝錄影檢和錄影帶可能會受損(可能無法得到維修)。

使攝錄影機避開磁性設備(電視機、電視遊戲機等)。

- 如果您在電視機附近使用攝錄影機時,電磁輻射可能會引起圖像和聲音失真。
- 揚聲器和大型馬達所產生的強磁場,可能會損壞錄影帶 的拍攝內容和使圖像矢真。
- 來自微電腦的電磁輻射會對攝錄影機造成不利影響,而 引起圖像和聲音失真。
- 如果攝錄影機受到磁性設備的不利影響,且無法正常工作時,請關閉攝錄影機取出電池或拔出交流轉接器,然 後再插入電池或連接交流轉接器。然後打開攝錄影機。

勿靠近收音機發射台或高壓電線使用攝錄影機

如果您靠近收音機發射台或高壓電線進行拍攝時,拍攝的圖像和聲音可能會受到不利影響。

勿將攝錄影機用作監視和其它工業目的

- 如果攝錄影機使用時間太長時,內部溫度會昇得過高,並可能轉致功能失常。
- 該攝錄影機並非設計用於工業目的。

在海邊或類似之處進行使用時,小心勿讓砂子或微小 塵埃進入攝錄影機之內。

砂子和塵埃可能會損壞攝錄影機和錄影帶(插入和取出錄 影帶時須多加小心)。

AEVIGUOSES

Cautions for Use

Take care that no water enters the Movie Camera when using it in the rain and snow or on the beach.

The Movie Camera and the cassette could become damaged. (It might not be repairable.)

Keep the Movie Camera away from magnetized equipment (TVs, video games. etc.).

- elf you use the Movie Camera on or near a TV, the electromagnetic radiation may cause picture and sound distortion.
- Strong magnetic fields generated by speakers and large motors may damage the recordings on the tape and distort the picture.
- The electromagnetic radiation from micro-processors can adversely influence the Movie Camera and cause picture and sound distortion.
- •If the Movie Camera is adversely influenced by magnetized equipment and does not work correctly, turn the Movie Camera off, remove the Battery or disconnect the AC Adaptor and attach the Battery or connect the AC Adaptor again. Then turn the Movie Camera on.

Do not use the Movie Camera near a radio transmitter or high-voltage power line.

•If you record near a radio transmitter or high-voltage power line, the recorded picture and sound may be adversely influenced.

Do not use the Movie Camera for surveillance and other industrial applications.

- If the Movie Camera is being used for a long time, the inside temperature could rise excessively and this may cause malfunction.
- This Movie Camera is not designed for industrial use.

Take care that no sand and fine dust enters the Movie Camera when using it on a beach or similar places.

Sand and dust could damage the Movie Camera and cassette. (Be careful when inserting and removing the cassette.)

1000 文

勿在攝錄影機上噴灑殺蟲劑或揮發劑。

- 這些物質可能會使機殼變形和引起表面塗屬剥落。
- 勿使攝録影機長時間直接與橡膠或塑料製品相接觸。

勿使用揮發劑或稀釋劑進行清潔。

- 遺型物質可能會使機器變形和引起表面塗層剥落。
- 清潔之前,請取出電池或從交流主播座上拔掉交流生電線。
- 請乾淨的軟布擦拭糧錄影機。清除頑固的髒跡時,請用 布浸上用水稀釋的中性洗潔劑,最後再用乾布收尾。

使用後,最好取出錄影帶和電池,或從交流主插座上 拔掉交流主電線。

- 如果讓錄影帶留在攝錄影機之內時,錄影帶可能會變鬆 弛而受損。
- 若將電池長期留在攝錄影機之內時,可能導致電壓電平 降得過低,以至於充電之後,使其再也無法得到使用 了。

LIENGUSH L

Do not spray insecticide or volatile agents on the Movie Camera.

- Such agents could deform the body and cause the surface coating to peel off.
- Do not leave the Movie Camera in direct contact with rubber or plastic products for a long time.

Do not use benzine or thinner for cleaning.

- They could deform the body and cause the surface coating to peel off.
- ® Before cleaning, remove the Battery or unplug the AC Mains Cable from the AC mains socket.
- •Wipe the Movie Camera with a soft, clean cloth. To remove persistent stains, wipe with a cloth moistened with mild detergent diluted with water, and then finish with a dry cloth.

After use, always take out the cassette and remove the Battery or unplug the AC Mains Cable from the AC mains socket.

- •If you leave the cassette in the Movie Camera, the tape can become loosened and damaged.
- If you leave the battery attached to the Movie Camera for a long time, the voltage level may drop very low so that the Battery cannot be used any more even after charging.



圖冷凝

確認内部是否已經形成冷凝,並對冷凝進行處理。

在您打開攝錄影機的電源後,若冷凝指示閃樂時,說明攝錄 影機內部三經形成冷凝。在此情況下,攝緣影機會自動在幾 秒鐘後關閉電源。處理方法如下:

1 取出録影帶。

所有其它的功能都不會工作。根據冷凝程度,有時可能 無法取出錄影帶。在此情況下,講等待2、3小時後再 取出錄影帶。

- 2 打開磁帶室蓋,並等待2、3小時。 所需時間將取決於冷凝程度和環境溫度。
- 3 2、3小時後,打開攝錄影機並檢查冷凝指示是否 消失。

為了更加安全,在重新使用攝錄影機之前,即使冷凝指示不再顯示,也語再等待 1 小時。

即使在冷凝指示出現以前,也應注意冷凝。

- 由於冷凝從逐漸形成的,在內部已經形成了冷凝後10~15分鐘之本,也可能不會出現冷凝指示。
- 在特別寒冷的地區,濕氣可能已經凍結而變為白霜。在 此情況下,需要額外等待2、3小時,以便使凍霜首先 溶化為冷凝,然後再將其消除。

霧蒙鏡頭的處理

將[POWER]開闢設置在[OFF],使攝錄影機在此狀況下停留 約 1 小時。

當鏡頭已經達到與其環境溫度大致相等的溫度時,蒙霧將自動得到清除。

ENGLISH

■ Condensation

Determining Whether Condensation Has Formed Inside and Remedy for Condensation

If the Condensation Indication flashes after you turn on the Movie Camera, condensation has formed inside the Movie Camera. In this case, the Movie Camera automatically switches off after a few seconds. Remedy as follows:

Take out the cassette.

All other functions do not work. Depending on the amount of condensation, it may not be possible to take out the cassette. In this case, wait 2–3 hours before taking out the cassette.

2 Leave the Cassette Compartment open and wait for 2–3 hours.

The required time depends on the amount of condensation and the ambient temperature.

After 2-3 hours, turn the Movie Camera on and check if the Condensation Indication is not displayed.

Even if the Condensation Indication is no longer displayed, wait 1 more hour for added safety before using the Movie Camera again.

Pay Attention to Condensation Even Before the Condensation Indication Appears.

- As condensation forms gradually, the Condensation Indication may not appear for the first 10–15 minutes after condensation has formed inside.
- In an extremely cold place, the condensation could freeze and turn into frost. In such a case, it takes an additional 2–3 hours for the frost to first melt into condensation and then to be dissolved.

Remedy for a Fogged-up Lens

Set the [POWER] Switch to [OFF] and leave the Movie Camera in this condition for about 1 hour.
When the lens has reached about the same temperature as its surroundings, it automatically clears up.

图 影像磁頭堵塞和修理

當影像磁頭 (與錄影帶接觸) 部分很髒時,播放的圖像將會 斑紋狀雜波或整個屏幕會變黑。若變得更髒時,拍攝性能會 降低,最壞的情況下,甚至可能完全無法進行拍攝。

影像磁頭髒污的原因

- ◎ 空氣的灰處過多
- 源於高溫和高濕的環境之中
- 錄影帶已經損壞
- 使用時間過長。

微型DV (數位影像) 格式數位影像磁頭清潔帶的使用方法

- 1 如錄影帶一樣,將磁頭清潔帶插入錄放影機之內。
- 2 按放影鈕[▶],約 20 秒鐘後,按停止鈕[圖](勿倒轉清潔帶)。
- 3 取出磁頭清潔帶。插入一盒錄影帶,進行錄影,然後播放該磁帶,以檢查畫質。
- 4 若畫質仍然不清晰時,請重復上述步驟1~3(勿連續使用磁頭清潔帶超過3次以上)。
- 5 每次使用後,勿倒轉清潔帶。只有當清潔帶已經到達尾 端時,才能將其倒轉到頭,然後從頭開始,再次以同樣 的方法進行使用。

注意:

- 若清潔後,影像磁頭很快又被堵塞時,很可能是潰壞的 錄影帶所導致。在此情況下,請立即停止使用該磁帶。
- 小心勿過分清潔影像磁頭。(清潔過分時,可能會導致 影像磁頭的嚴重磨損。若影像磁頭已被磨損時,即使清 潔後,播放的圖像也不會清晰。)
- 如果使用影像磁頭清潔帶無法解決影像磁頭的堵塞時, 説明該錄放影機需要委託維修中心進行清潔或修理了。 請咨詢經銷店。
- 該影像磁頭清潔帶在 Panasonic 維修中心有銷。

定期檢查

為了確保最佳畫質,建議您在約1000小時的使用後,更換影像磁頭等已經磨損的部件。(然而,這將在很大方面取決於溫度、濕度和灰塵等使用狀況如何。)

ENGLISH

Video Head Clogging and Remedy

When the video heads (which contact the tape) are dirty, the playback picture contains mosaic-like patterns or the whole screen becomes black. If they become even more dirty, the recording performance deteriorates and in the worst case, recording may not be possible at all.

Causes of Dirty Video Heads

- OA lot of dust in the air
- High-temperature and high-humidity environment
- Damaged tape
- Long-time use

Using the Mini-DV Format Digital Video Head Cleaner

- 1 Insert the Head Cleaner into the Movie Camera in the same way as a video cassette.
- 2 Press the Play Button [▶], and after approximately 20 seconds press the Stop Button [➡]. (Do not rewind the tape.)
- 3 Take out the Head Cleaner. Insert a video cassette, perform recording and then play it back to check the picture.
- 4 If the picture is still not clear, repeat above operation steps 1–3. (Do not use the Head Cleaner more than 3 times in succession.)
- 5 Do not rewind the tape in the Head Cleaner after every use. Rewind it only after the tape has reached its end, and then use it again in the same way from the beginning.

Notes:

- •If the video heads again become clogged with dirt soon after cleaning, this might be caused by a damaged tape. In this case, stop using that cassette immediately.
- •Be careful not to clean the video heads too much. (Too much cleaning could cause excessive wear to the video heads. If the video heads get worn, the picture is not played back clearly even after cleaning.)
- If using the Head Cleaner does not clear the video head clogging, the Movie Camera requires cleaning or repairing by a service centre.
- Please consult with your dealer.
- This Video Head Cleaner is available from Panasonic service centres.

Periodic Inspection

To ensure optimum picture quality, we recommend that you have worn-out parts such as video heads replaced after approximately 1000 hours of use. (However, this depends considerably on the conditions of use such as temperature, humidity and dust.)

圖電池的最佳利用

電池的特殊性能

該電池為可充電式銲離子電池。它能在內部化學反應的基礎上,查生電能。這種反應易受環境溫度和濕度的影響,所以在較高和較低的溫度下,電池能夠提供的操作時間會縮短。 當在極冷的環境下進行使用時,該電池也許僅能提供約5分鐘的操作時間。若電池變得極熱時,保護功能會啟動,以免在一定的時間內使用電池。

使用之後最好取出電池。

必須從攝錄影機上取出電池(若電池留在攝錄影機之內時,即使攝錄影機已經關閉,仍將消耗少量的電能)。將電池插入攝錄影機內時間過長時,可能會導致其放電過度,以至於充電之後,便其再也無法得到使用了。

丢掉不能用的電池時

- 電池的可用壽命是有限的。
- 勿將電池丢在火中,以免發生爆炸。

應使電池端子保持乾淨。

小心勿讓端子(兩個小圓開口) 插入灰塵、髒跡或其它物質。 若意外摔落電池時,請確認其端子是否變形。 將變形的電池插入攝錄影機或將其安裝在交流轉接器上時, 將會損壞攝錄影機或交流轉接器。

■ 當交流轉接器上的充電燈閃爍報警時

苦環境溫度過高或偏低時,交流轉接器上的充電燈會閱爍。 當電池或交流轉接器發生功能失常時,這些燈也會閱爍。

當充電燈慢慢閃爍時

電池止在充電,但充電時間長於平時。

僅[80%]充電燈閃爍時

个能進行充電。請暫時取出電池,等待幾分鐘,然後再次裝 入進行式電。

當[50%]和[100%]充電燈輪流閃爍,或無充電燈亮起時

請取出,然後重新裝入電池。或者,將電池裝在攝錄影機 上,進行10-20分鐘的放影(或某些其它操作)。然後取 出電池,將其再次裝在交流轉接器上。若仍然無法充電時, 說明電池或交流轉接器已經發生某種故障。請咨詢經銷商。

ENGLISH T

Optimum Use of the Battery

Special Characteristics of the Battery

This Battery is a rechargeable lithium-ion battery. Its ability to generate electric energy is based on an internal chemical reaction. This reaction is easily influenced by ambient temperature and humidity, and the useful operation time that the Battery can provide becomes shorter at high and low temperatures. When used in extremely cold surroundings, the Battery may only be able to provide approximately 5 minutes of operation time. If the Battery becomes extremely hot, a protection function is activated and prevents the use of the Battery for some time.

After Use, Always Remove the Battery.

Be sure to remove the Battery from the Movie Camera. (If it is attached to the Movie Camera, a small amount of electric current is consumed even if the Movie Camera is turned off.) Leaving the Battery attached to the Movie Camera for a very long time could cause it to become excessively discharged, so that it cannot be used any more even after charging.

Discarding a Battery That Has Become Unusable

- The usable life of the Battery is limited.
- On not throw the Battery in a fire because it could explode.

Keep the Battery's Terminals Clean.

Be careful that the terminals (the two small round openings) do not get plugged up with dust, dirt or other substances.

If you accidentally drop the Battery, confirm that the Battery itself and the terminals are not deformed. Attaching a deformed Battery to the Movie Camera or to the AC Adaptor could damage the Movie Camera or the AC Adaptor.

When the Charge Lamps on the AC Adaptor Flash as Warning

If the ambient temperature is extremely low or high, the Charge Lamps on the AC Adaptor flash. They also flash when some defect has occurred in the Battery or the AC Adaptor.

When the Charge Lamps Flash Slowly

The Battery is being charged, but charging takes longer than normally.

When Only the [80%] Charge Lamp Flashes

Charging is not possible. Remove the Battery once and wait a few minutes, and then re-attach it again for charging.

When the [50%] and [100%] Charge Lamps Flash Alternately, or When No Charge Lamps Light

Remove and then re-attach the Battery. Or, attach the Battery to the Movie Camera and perform playback (or some other operation) for 10–20 minutes. Then remove the Battery and attach it again to the AC Adaptor. If charging is still impossible, some malfunction has occurred in the Battery or the AC Adaptor. Please consult with your dealer.

■ 存放注意專項

存放攝錄影機之前,應取出錄影帶和電池。

應將所有的設備存放在溫度相對比較穩定的乾燥之處。 (推薦溫度為15℃~25℃,推薦相對濕度為40%~60%。)

攝錄影機

● 用軟布擦拭,以免灰塵進入其內。

電池

- ◎ 極低和極高的溫度會縮短電池壽命。
- 將其存放在油煙很重或灰塵濃厚之處時,將使端子變得 很髒,從而導致功能失常。
- 勿證金屬物品(如項鏈和髮夾等)接觸電池端子。否則,可能會發生短路和發熱,在此情況下接觸電池時,可能會導致嚴重的燙傷。
- 在電池放電狀態下,若長期儲存電池時,建議您每年進行一次電池充電,並在放電狀態下重新存放之前,將電量完全用盡。

錄影帶

- 存放前,將錄影帶倒轉到頭。讓磁帶停在半中腰,而將錄影帶存放6個月(取決於其存放狀態)以上時,將使錄影帶鬆弛。故務必將其倒轉到頭。
- 將錄影帶放在盒中,然後再存放。 否則,灰塵、直射陽光(紫外線)和濕氣可能會損壞錄影帶。含有堅硬的礦物微粒的灰塵和帶有灰塵的錄影帶,可能會損壞攝錄影機的影像磁頭和其它部分。要養成隨時將錄影帶放回盒中的習慣。
- 每隔半年,應將錄影帶完全前倒或後倒次。讓錄影帶 未前倒或後倒而超過一年時,由於溫度和濕度變化而引 起磁帶的伸長或收縮,因此可能會使錄影帶變形。而 且,還可能會造成錄影帶粘接在一起。
- 勿將錄影帶置於磁場強烈的物品和設備附近。
- 錄影帶表面鍍有極小的磁性微粒,可錄製信號。有些物品,如磁性項鏈和玩具等帶有普通不可想像的強烈磁力,這些物品可能會抹消拍攝的內容和造成圖像和聲音失真。

ENGLISH

Precautions for Storage

Before Storing the Movie Camera, Take out the Cassette and Remove the Battery.

Store all equipment in a dry place where the temperature remains relatively constant.

(Recommended temperature is 15°C-25°C and recommended relative humidity is 40%-60%.)

Movie Camera

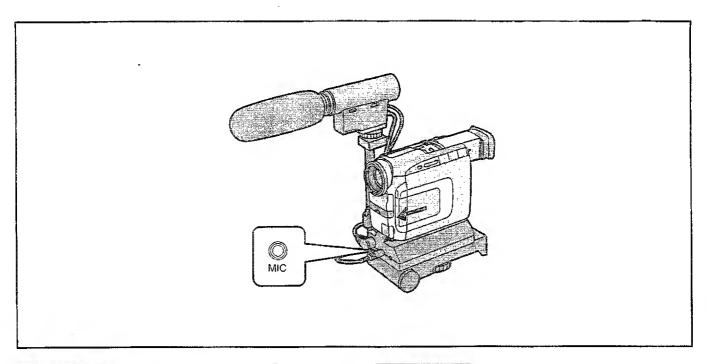
Wrap it with a soft cloth to prevent dust from entering.

Battery

- Extremely low or high temperature shortens the Battery life.
- Storing it in places with oily smoke and a lot of dust could cause the terminals to get rusty, and this can result in malfunction.
- •Do not allow metal objects (such as necklaces and hair pins) to touch the battery terminals. Shortcircuiting may occur and generate heat, and touching it in this condition could inflict serious burns.
- Store the Battery in discharged condition. If you store the Battery for a long time, we recommend that you charge it once a year and completely use up the charge before storing it again in discharged condition.

Cassette

- Rewind the tape to its beginning before storing. Leaving the cassette with the tape stopped halfway for more than 6 months (depending on the storing condition) loosens the tape. Be sure to rewind it to the beginning.
- Put the cassette in its case to store it.
 Dust, direct sunlight (ultraviolet rays) and humidity could damage the tape. Dust contains hard mineral particles and cassettes with dust damage the video heads and other parts of the Movie Camera. Make it a habit to always put the cassette back into its case.
- Completely wind the tape forward and then rewind it once every half year. Leaving the cassette for more than a year without winding/rewinding it may deform the cassette because of stretching and shrinking of the tape due to changes in temperature and humidity. Also, the tape may stick together.
- Do not place the cassette near strongly magnetized objects or equipment.
- The tape surface is coated with microscopic magnetic particles and they record signals. Such objects as magnetic necklaces and toys have stronger magnetic force than commonly thought, and this could erase the recorded contents and cause noise in picture and sound.



■ 液晶顯示監視器/電子尋像器/座轉接器/麥 克風插孔

液晶顯示監視器

- 為差變化很大的地區,液晶顯示監視器上可能會形成冷凝。請用乾軟布將其擦淨。
- 當打閱攝錄影機時,其溫度很低,液晶顯示監視器上起 初會比平常暗。然而,當內部溫度昇高時,液晶顯示監 視器將恢復其原來的亮度。
- 液晶顯示監視器是採用極其高精技術製造的。結果 99.99%以上的像點是有效的,而僅有不足0.01%的像點 可能損壞或恆久亮起。

然而,這並打功能失常,且不會影響轉錄的圖像。

電子尋像器

● 電子尋像器是採用極具高精技術製造的。結果99.99%以上的像點是有效的,而僅有不足 0.01%的像點可能損壞或恆久亮起。

然而,這並非功能失常,且不會影響轉錄的區像。

● 勿將電子尋像器或鏡頭瞄準太陽。否則,可能會導致內部零件的嚴重損壞。

座轉接器

● 安裝座轉接器(VW-SK9E,選購品)時,請將攝錄影機 安裝在座轉接器的前端,以免立體聲變距麥克風(VW-VMS1E,選購品)被拍攝在圖像之中。

麥克風插孔

● 如果您打算用外部麥克風或音頻設備進行音頻拷貝時, 請將其連接至輸出端子箱[AV ONE TOUCH STATION]上 的[MIC](麥克風)插孔。在此情況下,攤錄影機的內藏 麥克風會關閉。

ENGLISH

LCD Monitor/Finder/Shoe Adaptor/ Microphone Socket

LCD Monitor

- •In places where big changes in temperature occur, condensation may form on the LCD Monitor. Wipe it with a soft, dry cloth.
- •When the Movie Camera is very cold when it is turned on, the picture on the LCD Monitor is initially a little darker than normally. However, as the internal temperature rises, the LCD Monitor regains its normal brightness.
- Extremely high precision technology is employed in producing the LCD Monitor. The result is more than 99.99% effective pixels with a mere 0.01% of the pixels inactive or always lit. However, this is not a malfunction and does not affect the recorded picture.

Finder

- Extremely high precision technology is employed in producing the Finder screen. The result is more than 99.99% active pixels, with a mere 0.01% of the pixels inactive or always lit. However, this is not a malfunction and does not affect the recorded picture.
- •Do not leave the Finder or the Lens aimed at the sun. This could seriously damage internal parts.

Shoe Adaptor

•When attaching the Shoe Adaptor (VW-SK9E; optional), mount the Movie Camera toward the front end of the Shoe Adaptor to prevent the Stereo Zoom Microphone (VW-VMS1E; optional) from being recorded in the picture.

Microphone Socket

If you want to perform audio dubbing via an external microphone or audio equipment, connect it to the [MIC] Socket on the Output Terminal Box [AV ONE TOUCH STATION]. In this case, the Movie Camera's built-in microphone is turned off.

用語解説

■ 數位影像系統

在數位影像系統中,圖像和聲音被轉換成數位信號,並被錄 製在磁告上。這種全數位錄製方式,可進行質量損失極少的 圖像和聲音的拍攝和放影。

另外, 諸如時間編碼、日期和時間等數據也可自動錄製為數 位信號。

特色

- 優異的圖像清晰度
- o 傑出的信噪比
- ◎ 穩定的畫面
- ◎ 拷貝中的品質損失最低
- 交叉色彩失真最低
- ◎ PCM數位音響
- LP狀態下無圖像品質降低
- 6.35mm寬錄影帶
- 拍攝時間長的小巧磁帶
- ◎ 編輯中的品質損失最低
- o 時間編碼編輯

與S-VHS或VHS錄影帶不兼容

由於該攝錄影機採用數位方式來拍攝圖像和聲音,所以與一般的採用模擬拍攝式的S-VHS或VHS影像設備無兼容性。 另外,錄影帶的尺寸和形狀也完全不同。

與輸出信號的兼容性

由於來自音頻和影像輸出插座的影像和音頻信號輸出為模擬的,與一般影像系統相同,所以您可將該攝錄影機連接至您的S-VHS或VHS錄放影機或電視機進行放影。

PCM音響

為了錄製聲音·該攝錄影機準備了兩種不同的PCM音頻錄製 狀態以供選擇。

- ◎ 16位48kHz雙聲道
- 12位32kHz四聲道

"16位,48kHz,雙聲道"狀態可提供優異的錄製音質。 "12位,32kHz,四聲道"狀態可讓您在[兩個分離的聲道]上 錄製原來的聲音,並在[雙聲道]上拷貝聲音。

副編碼

數位錄製系統可提供錄製含有各種數據之副編碼的額外能力。

該攝錄影機上,下列數據將被錄製為副編碼:

- 時間編碼
- 拍攝數據和時間
- 用於定位在拍照狀態下攝製的已拍靜止圖像 (拍照) 的索引信號
- 用於定位帶索引信號標誌的場景之開頭

ENGUS:

Glossary

Digital Video System

In the digital video system, picture and sound are converted into digital signals and recorded onto the tape. This completely digital recording allows recording and playback of picture and sound with minimum quality deterioration.

In addition, such data as Time Code. Date and Time are also automatically recorded as digital signals.

Features

- Superior picture resolution
- Excellent signal-to-noise ratio
- Stable pictures
- Minimised quality deterioration in dubbing
- Minimised cross colour distortion
- PCM digital sound
- No picture deterioration in LP Mode
- €6.35 mm-wide tape
- Compact cassette with long recording time
- Minimised quality deterioration in editing
- Time Code editing

Compatibility with S-VHS or VHS Cassettes

As this Movie Camera uses a digital method for recording picture and sound, there is no compatibility with conventional S-VHS or VHS video equipment using analog recording methods.

In addition, the size and shape of the cassette are completely different.

Compatibility with Output Signals

As the video and audio signals output from the audio and video output sockets are analog—the same as in conventional video systems—you can connect this Movie Camera to your S-VHS or VHS VCR or TV for playback.

PCM Digital Sound

For recording of the sound, this Movie Camera offers the choice between two different PCM Audio Recording Modes.

- ●16 bit, 48 kHz, 2 channels
- ₱12 bit, 32 kHz, 4 channels

The "16 bit, 48 kHz, 2 channels" Mode offers superior recording sound quality.

The "12 bit, 32 kHz, 4 channels" Mode lets you record the original sound in stereo on two channels and the dubbed sound in stereo on two separate channels.

Sub Code

The digital recording system offers the added capability of recording sub code containing various data.

The following data is recorded as sub code on this Movie Camera:

- Time code
- Recording date and time
- Index signals for locating still images recorded in the Photoshot Mode
- Index signals for locating the beginning of scenes marked with index signal

中 文

図 聚焦

如果您鎖過放大鏡觀看一個目標物,將放大器遠離或靠近您的眼睛,便可找到一個能夠清晰地看見該目標物的位置。被 聚焦或聚焦表示目標物以最好的清晰度和鮮明度被看到。

人眼

人類的眼睛內也有鏡頭。當我們看不同距離處的目標物時, 這些鏡頭的形狀自動改變,所以我們總能清楚地看到這些目標物。

攝錄影機

目標物的形狀通過鏡頭進入攝錄影機,並被轉換成電信號 (影像信號)錄製在磁帶上。聚焦是依靠手動或自動移動聚焦 鏡頭來進行調節的。

自動聚焦調節

自動聚焦系統自動前後移動內部聚焦鏡頭,並調節聚焦,使 目標物能清晰可見。

自動聚焦調節具有下列特性:

- ◎ 它將調節目標物的垂直輪廓,使其盡可能鮮明和清晰。
- ◎ 它將調節目標物的聚焦,使其具有最大的對比度。
- 它將調節液晶顯示監視器或電子尋像器中央部分的目標物。

不像人眼·攝錄影機的鏡頭不能從近處向遠處的目標物,立即改變聚焦。

HENGISH

₩ Focus

If you look at an object through a magnifying glass and move it closer or further away from your eye, you will reach a point where the object becomes clearly visible. Being focused or in focus means that the subject can be seen with optimum clarity and sharpness.

Human Eyes

Human eyes have lenses as well, and when we look at objects at different distances, the shape of these lenses changes automatically so that we can always see these objects clearly.

Movie Camera

The image of the subject enters the Movie Camera through the lens and is converted into an electric signal (video signal) for recording onto magnetic tape. The focus is adjusted either manually or automatically by moving a focusing lens.

Auto Focus Adjustment

The Auto Focus System automatically moves the internal focusing lens forward or backward and adjusts the focus so that the subject can be seen clearly.

The Auto Focus Adjustment has the following characteristics:

- It adjusts until the vertical contours of the subject are as sharp and clean as possible.
- olt adjusts the focus on the subjects with strong contrast.
- It adjusts the focus on the subject in the centre of the LCD Monitor or Finder.

Unlike human eyes, the lens of the Movie Camera cannot instantaneously change the focus from a nearby to a distant subject and vice versa.

對於下列目標物和拍攝狀況,自動聚焦系統不能提供精確的調節。

請用手動聚焦狀態代替。(→ 84)

一部分靠近議錄影機·而另一部分遠離議錄影機的目標物。

因為自動聚焦是調節畫面的中心部分,所以常常很難便 目標物的近處和遠處都能同時聚焦。

當您打算拍攝背景上有遠山風景的人物時,不可能使兩 方都能聚焦。

② 拍攝被髒污或灰塵覆蓋的玻璃之後的目標物

由於聚焦是對在髒污的玻璃之上,所以玻璃之後的目標物將無法得到聚焦。當拍攝汽車穿梭不斷的街道對面的目標物時,聚焦可能會對在汽車上。

1 拍攝黑暗環境中的目標物

由於進入鏡頭的光亮信息將被受到極大地降低,所以攤錄影機將無法進行精確地聚焦。

4 拍攝被發亮表面或強烈反光物體所包圍的目標物

因為攝錄影機將調節具有發亮表面或有強烈反光之物體 的聚焦,所以目標物可能會散焦。

因此,當在湖邊或海邊、夜景、焰火或在特殊燈光下拍攝時,目標物可能會散焦。

6 拍攝快速移動的目標物

因為內部聚焦鏡頭是機械式地移動,可能無法及時地跟 上快速移動的目標物。

所以,對於孩子來回跑步之類的目標物,可能會暫時散 焦。

@ 對比度微弱的目標物

因為攝錄影機是根據畫面中的垂直輪廓進行聚焦調節, 所以,對比度極弱的目標物,如白牆等可能會散焦。

ENGLISH

For the following subjects and recording situations, the Auto Focus System cannot provide precise adjustment.

Use the Manual Focus Mode instead. (-> 84)

- Recording subjects with a part of it near the Movie Camera and another part far away from it

 As the Auto Focus adjusts on the centre part of the image, it is often impossible to bring the nearby and distant parts of the subject into focus.

 When you want to record a person with a distant mountain in the back, it is not possible to focus on both.
- Recording subjects behind glass covered with dirt or dust

As the focus is adjusted on the dirty glass, the subject behind the glass is out of focus. When recording a subject across a street on which cars are running, the focus may be adjusted on the cars.

- Recording subjects in dark surroundings

 As the amount of light information entering through the lens is greatly reduced, the Movie Camera cannot adjust the focus precisely.
- Recording subjects surrounded by objects with shiny surfaces or much light reflection

 As the Movie Camera adjusts the focus on objects with shiny surfaces or much light reflection, the subject may go out of focus.

 Therefore, when recording at a lake or the sea, evening scenes, fireworks, or under special types of lighting, the subject may be out of focus.
- Recording fast-moving subjects

 As the internal focusing lens is moved mechanically, it cannot follow fast-moving subjects without delay.

 Therefore, subjects like children running back and forth may temporarily go out of focus.
- Subjects with weak contrast

 As the Movie Camera adjusts the focus based on vertical contours in the picture, subjects with little contrast such as a white wall may be out of focus.

图 白色平衡調節

在室外太陽光之下,可進行攝錄影機的大部分拍攝操作,同時也可用各種不同的人工光源,在室內和室外進行影像拍攝。然實,這些光源將給目標物帶來稍微不同的顏色。

人鼠

人眼可輕而易繼地調節各種不同光線,即使在不同的燈光 下,也能以同樣的色彩觀看物體。

攝錄影機

攝錄影機不像人服,沒有天生的能力來適應那些對拍攝色彩 有很大影響的光線變化。所以,根據光源不同,畫面可能會 偏藍或泛紅。為了使光源對目標物的色彩影響降至最低,有 必要進行所謂的白色平衡調節。....

白色平衡調節

白色平衡調節將決定燈光的色彩,並調節色彩、以使保白色 保持純白。由於白色是整個彩色光譜的基本色彩,所以,若 白色得到正確地再生,則其它色彩也會保持正確和自然。

自動白色平衡調節

本攝錄影機在存储器中儲存有幾種普通光源的最佳設定。 攝錄影機通過對鏡頭和白色平衡感應器(→ 12)所接收的圖 像色調進行估量,來判斷拍攝狀態,然後選擇最類似色調的 設定。這種功能即被稱為自動白色平衡調節。

然而,由於存儲器中僅儲存了幾種光源的白色平衡設定。所以,對於存儲器中所存儲之外的其他燈光條件,將無法進行 正確的白色平衡調節。

有關白動白色平衡功能能夠提供精確調節的不同類型燈光的範圍,請參看列表(→ 164)。有關比範圍之外的燈光條件下的拍攝,自動白色平衡功能將無法正常工作,且拍攝的圖像將偏紅或泛藍。當目標物是由一種以上的光源照射的時,即使這些光源全都在上速範圍之內,其結果也相同。

TENGLISH .

☑ White Balance Adjustment

While most recording with a Movie Camera is probably done outdoors under sunlight, video recording is also done very often under artificial light sources, both indoors and outdoors. However, each of these light sources gives the subject slightly different colours.

Human Eyes

Human eyes can easily adjust to different kinds of lighting and see an object with the same colours even under different lighting.

Movie Camera

Unlike human eyes, the Movie Camera does not have the innate ability to adapt to changes in lighting, and they influence the colours being recorded. Therefore, depending on the light source, the picture would be recorded with a bluish or reddish tint. To minimise the influence of the lighting on the colours of the subject, an adjustment called White Balance Adjustment is necessary.

White Balance Adjustment

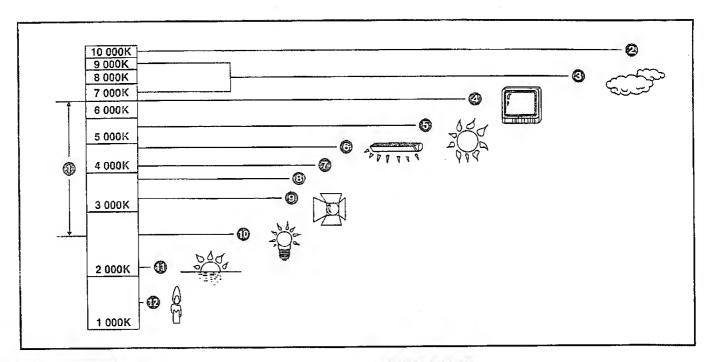
The White Balance Adjustment determines the colour of the light and adjusts the colours so that white remains pure white. As white is the basic colour of the entire colour spectrum, if white is reproduced correctly, the other colours are correct and natural, too.

Auto White Balance Adjustment

This Movie Camera stores the optimum settings for several common light sources in memory. The Movie Camera judges the recording situation by determining the tint of the light received through the lens and by the White Balance Sensor (->> 12), and it selects the setting for the most similar tint. This function is called Auto White Balance Adjustment.

However, as the white balance settings for only a few light sources are stored in memory, the white balance is not correctly adjusted for other lighting conditions.

For the range of different types of lighting within which the Auto White Balance Function can provide precise adjustment, refer to the chart (> 164). For recording under lighting conditions outside this range, the Auto White Balance Function does not work correctly, and the recorded picture has a red or blue cast. However, the same also applies, if the subject is lit by more than one light source, even if these light sources are within this range.



中 文

麗 色温

每種光源都具有用絕對溫度(K)來衡量的特有色溫。絕對溫度值越高,光源的顏色就越藍;其值越低,光源的顏色就越 紅。絕對溫度值與光線的色調有關,但與亮度沒有直接關係。

- 該攝錄影機的自動白色平衡調節狀態的控制範圍
- 2 藍天
- @ 陰天(下雨)
- 電視機屏幕
- 3 太陽光
- 6 白色熒光燈
- → 日出2小時後或日落2小時前
- ❸ 日出1小時後或日落1小時前
- ② 鹵素燈
- 10 白熾燈
- (1) 日出或日落
- 12 蠟燭光

ENGLISH

Colour Temperature

Every light source has its own colour temperature measured in Kelvin (K). The higher the Kelvin value, the more bluish the light; the lower the value, the more reddish the light. The Kelvin value is related to the tint of the light, but not directly to its brightness.

The range indicated in the illustration above shows the light sources for which this Movie Camera can provide precise white balance adjustment and, therefore, natural colours in the recorded pictures, when using the Full Auto Mode. For light sources outside this range, adjust the white balance manually (\Rightarrow 82). Also, additional lighting may be necessary.

- Control range of this Movie Camera's Auto White Balance Adjustment Mode
- Blue sky
- Cloudy sky (Rain)
- TV screen
- **6** Sunlight
- White fluorescent lamp
- 2 hours after sunrise or before sunset
- 1 hour after sunrise or before sunset
- Halogen light bulb
- 10 Incandescent light bulb
- (1) Sunrise or sunset
- (D) Candlelight

· 由 文

國時間編碼

時間編碼信號是用小時、分、移和頓 (25 幀形) 來表示時間 的數據。拍攝內容中含有這些數據,將給錄影帶上的每幅圖 像提供自己的地址。

- 在您進行每只拍攝時,時間編碼終自動被作為副編碼部分而拍攝。
- 富您插入新的(以前未拍過的)錄影帶時,時間編碼將自 動從零開始。如果您捶入己拍錄影帶時,時間編碼會從 上次場景停止時的時間編碼處接續下去。在此情況下, 插入錄影帶後,可能會出現零指示(Oh:00m:00s:00f),但 開始拍攝時,時間編碼將從以前的值開始出現。
- 不能將時間編碼復原至零。
- 在普通放影之外的放影狀態下,可能不會顯示時間編碼 (或顯示不當)。
- ○除非時間編碼是從錄影帶開頭連續錄製的,否則,將無 法進行精確的編輯。為了確保時間編碼錄製中沒有中 斷,建議您在開始拍攝新場景之前,使用攝錄影機等影 功能(→ 56)或空白尋影功能(→ 58)。

圞記憶停止功能

記憶停止功能便於下列操作:

將錄影帶倒轉或快進至需要的位置時

- 看 在您以後打算播放的磁帶位置,使磁帶計數器復原至零。(→ 132)
- 第[CAMERA MENU2]菜單或[VCR MENU2]菜單上的[DISPLAY](顯示)設置在[MEMORY](記憶)。
- 3 開始放影或錄影。
- 4 在放影或拍攝結束後: 將[POWER]開關設置在[VCR] (錄放影機)。
- 5 倒轉錄影帶。 在然將計數器復原至零的大致位置,錄影帶會自動停止。

在音頻拷貝中自動停止編輯時

- 1 在您打算停止編輯的磁帶位置,使磁帶計數器復原至零。
- ② 將[CAMERA MENU2]菜單或[VCR MENU2]菜單上的[DISPLAY]設置在[MEMORY]。
- 3 在您打算開始音頻拷貝之處,播放靜止圖像。
- 4 開始音頻拷貝。(→94) 在您將計數器復原至等的大致位置、音頻拷貝會自動停止。

ENGLISH

Time Code

Time Code signals are the data which indicates the time in hours, minutes, seconds and frames (25 frames/sec). Having this data included in the recording gives every single picture on the tape its own address.

- The Time Code is automatically recorded as part of the sub code with every recording you make.
- •When you insert a new (previously unrecorded) cassette, the Time Code automatically starts from zero. If you insert a recorded cassette, the Time Code continues where the time code of the last previous scene stopped. (In this case, the zero indication [0h:00m:00s:00f] may appear after inserting the cassette, but when the recording starts, the Time Code records from the previous value.)
- You cannot reset the Time Code to zero.
- In playback modes other than the Normal Playback Mode, the Time Code may not be displayed (or not be correct).
- Ounless the Time Code is recorded continuously from the beginning of the tape, precise editing may not be possible. To ensure that the Time Code is recorded without interruption, we recommend that you use the Camera Search Function (→ 56) or Blank Search Function (→ 58) before starting to record a new scene.

Memory Stop Function

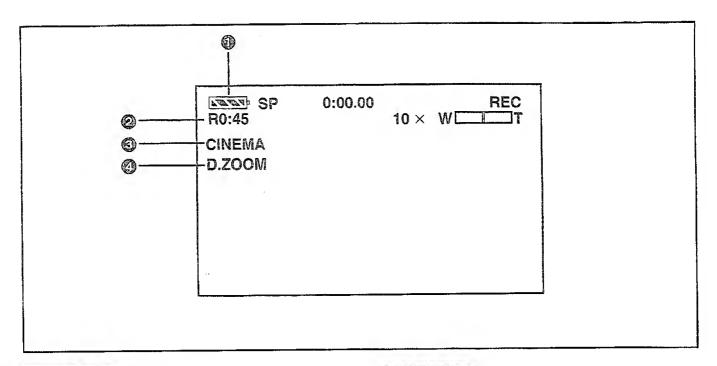
The Memory Stop Function is convenient for the following operations.

Rewinding or fast-forwarding the tape to a desired position

- Reset the Tape Counter to zero at the tape position from which you want to play back later. (→ 132)
- Set [DISPLAY] on the [CAMERA MENU2] Menu or [VCR MENU2] Menu to [MEMORY].
- 3 Start playback or recording.
- After playback or recording is finished: Set the [POWER] Switch to [VCR].
- The tape automatically stops approximately at the position at which you reset the counter to zero.

Stopping the editing automatically in audio dubbing

- Reset the Tape Counter to zero at the tape position at which you want the editing to stop.
- Set [DISPLAY] on the [CAMERA MENU2] Menu or [VCR MENU2] Menu to [MEMORY].
- Play back a still picture at the point at which you want the audio dubbing to start.
- Start the audio dubbing. (-> 94)
 The audio dubbing automatically stops
 approximately at the position at which you reset the counter to zero.



中文。

液晶顯示監視器/電子尋像器的指示

@ 剩餘電池電量

2 剩餘磁帶時間

剩餘磁帶時間將以分鐘來顯示。

- (當其少於3分鐘時,該指示將開始閃爍。) ● 如果拍攝長度短於15秒時,剩餘磁帶時間將無法得到
- 正確的顯示。

 顯示的剩餘磁響時間可能會短於實際的剩餘磁帶時
- 顧示的剩餘磁帶時間可能會短於實際的剩餘磁帶時間。

8 電影狀態 (→ 40)

在電影狀態下進行拍攝時,將出現該指示。

4 數位變焦 (→ 36)

當數位變焦功能啟動時,將出現該指示。

數位效果 (→ 72)

常數位效果啟動時,將出現相應的指示。

ENGLISH

Indications on the LCD Monitor/in the Finder

Remaining Battery Power

As the remaining battery power decreases, the indication changes as follows:

When the battery is completely discharged, the

☐ () Indication flashes.

(When you are using the AC Adaptor, the Indication may appear, however, this has no meaning in this case.)

Remaining Tape Time

The remaining tape time is displayed in minutes. (When it becomes less than 3 minutes, the indication starts to flash.)

- If a recording lasts less than 15 seconds, the remaining tape time cannot be displayed correctly.
- The displayed remaining tape time may be shorter than the actual remaining tape time.
- Cinema Mode (→ 40)

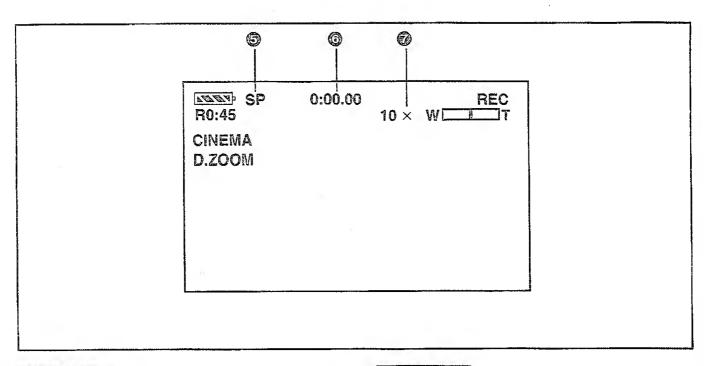
When recording in the Cinema Mode, this indication is displayed.

② Digital Zoom (→ 36)

When the Digital Zoom Function is activated, this indication is displayed.

Digital Effects (→ 72)

When a digital effect is activated, the corresponding indication is displayed.



中 文

⑤拍攝速度狀態(→24)

會顯示所選擇拍攝速度狀態。

SP: 標準狀態

LP: 長時間放影狀態

⑩磁帶計數器,時間編碼(→ 174)

會顯示磁帶計數器、記憶停止功能或時間編碼指示。

@ 變焦放大率 (→ 36)

當您上下按[W/T]變焦柄時,將出現變焦放大率指示和變 焦儀指示。

拍攝狀態 (→ 30,68,80,82,84,86,88)

AUTO:

當狀態選擇開闢被設置在[AUTO](自動)

時、會出現該指示。

MNL:

當狀態選擇開關被設置在[MNL](手動)

位置時、會出現該指示。

超級圖像穩定(→42)

<u>(2)</u>

當超級圓像穩定功能啟動時,會顯示該

指示。

音頻錄製狀態 (→ 94)

12 bit/16 bit:

在放影中,會顯示拍攝時所選擇的音頻

錄製狀態指示。

自動打印 (→ 120)

AUTOPRINT: 當正在使用自動打印功能時,會出現該

指示。

ENGLISH

Recording Speed Mode (→ 24)

The selected Recording Speed Mode is displayed.

SP: Standard Mode LP: Long-play Mode

Tape Counter, Time Code (→ 174)

The Tape Counter, Memory Stop Function or Time Code Indication is displayed.

Zoom Magnification (→ 36)

When you push the [W/T] Zoom Lever up or down, the Zoom Magnification Indication and the Zoom Gauge are displayed.

Recording Mode (→ 30, 68, 80, 82, 84, 86, 88)

AUTO:

This appears when the Mode

Selector Switch is set to [AUTO].

MNL:

This appears when the Mode

Selector Switch is set to [MNL].

Super Image Stabilizer (→ 42)

(2):

When the Super Image Stabilizer

Function is activated, this indication

is displayed.

Audio Recording Mode (→ 94)

12 bit/16 bit:

The indication of the Audio

Recording Mode that was selected for recording is displayed during

playback.

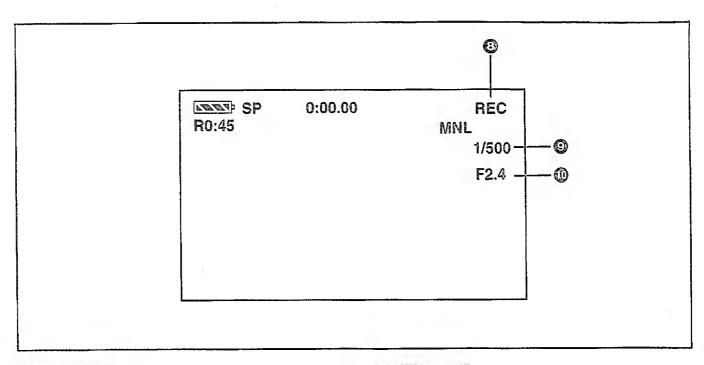
Automatic Printing (→ 120)

AUTOPRINT:

This indication is displayed when the

Automatic Printing Function is being

used.



銀影帶運行指示

RECORD: 錄影 (→ 30)

PAUSE: 錄影暫停 (→ 30)

▷: 放影 (→ 44)/正向攝錄影機尋影 (→ 56)

19: 靜止放影 (→ 50)

▷▷: 快進/快進轉影播放 (→ 46)◇□: 倒帶/倒帶轉影播放 (→ 46)

圓▷/◁圓: 正向慢動作放影/反向慢動作放影(→ 48)

88▷/◇**BB**: 止向靜止步進放影/反向靜止步進放影

(⇒ 50)

DDI/II<</i>□ 正向素引專影/反向索引轉影(→ 60·62·

64)

CHK: 拍攝檢查 (→ 32)
A.DUBD: 音頻拷貝 (→ 94)

A.DUB**II**: 音頻拷貝暫停 (→ 94) PHOTO: 以拍照狀態進行拍攝 (→ 38)

BLANK: 空白尋影 (→ 58) RD: 重復放影 (→ 44)

●: 用DV(數位影像)端子進行拍攝(→ 112)

● 営用鏡面狀態,將液晶顯示監視器朝前進行拍攝時,將 不會出現上述指示。僅會顯示剩餘電池電力指示、拍攝 指示[●]和拍攝暫停指示[●18]。

② 快門速度

當您手動調節快門速度時,會顯示該指示。 (→ 86)

60 光圈值(F數字)

當您手動調節光圈時,會顯示該指示。(→88)

ENGLISH

10/41:

(ii) Tape Run Indications

REC: Recording (→ 30)

PAUSE: Recording Pause (→ 30)

⇒: Playback (→ 44)/Camera Search in

forward direction (→ 56)

Camera Search in reverse direction

(→ 56)

19; Still Playback (→ 50)

▷▷: Fast-forward/Cue Playback (→ 46)<I Rewind/Review Playback (→ 46)

Slow Playback in forward direction/ Slow Playback in reverse direction

(→ 48)

88⊳/⊲88: Still Advance Playback in forward

direction/Still Advance Playback in

reverse direction (-> 50)

DDI/Id⊲: Index Search in forward direction/

Index Search in reverse direction

(→ 60, 62, 64)

CHK: Recording Check (→ 32)

A.DUB ▷: Audio Dubbing (→ 94)

A.DUB III: Audio Dubbing Pause (→ 94)

PHOTO: Recording in the Photoshot Mode

(→ 38)

BLANK: Blank Search (→ 58)
R ▷: Repeat Playback (→ 44)

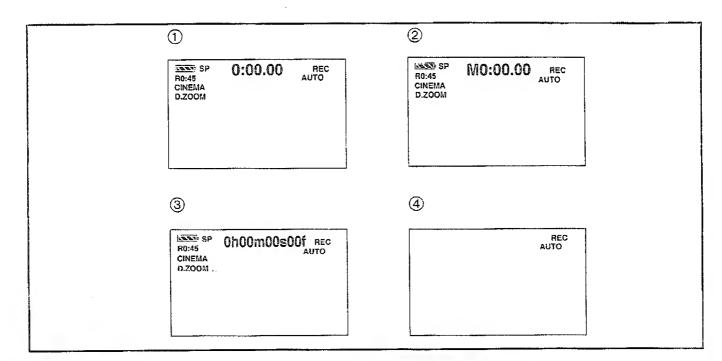
When recording with the LCD Monitor facing forward using the Mirror Mode, only the Remaining Battery Power Indication, the Recording Indication [@] and the Recording Pause Indication [@] are displayed.

(2) Shutter Speed

When you manually adjust the shutter speed, this indication is displayed. (→ 86)

nis Value (F Number)

When you manually adjust the iris, this indication is displayed. (→ 88)



中文。

指示變更

改變[CAMERA MENU2]菜單 (→ 130) 或[VCR MENU2]菜單 (→ 134) 上的[DISPLAY](顯示) 設定,或重復按遙控器 (→ 98) 上的[DISPLAY]鈕,可依上圖 ① 一 ④ 所示,依序改變計數器的顯示狀態:

- ① 磁帶計數器指示
- (2) 記憶停止指示已啟動的磁帶計數器指示
- ③ 時間編碼指示
- ④ 無指示

(在此狀態下,僅會顯示磁帶運行指示、警告/報警指示、日期/時間指示、程序AE狀態指示、手動聚焦狀態指示、白色平衡狀態指示和變焦放大指示。)

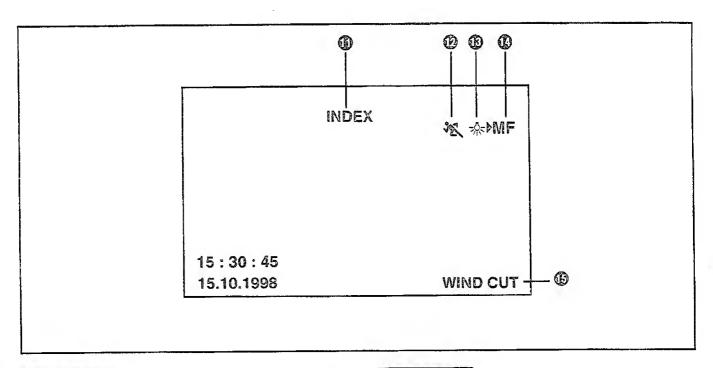
ENGLISH

Changing the Indications

By changing the setting for [DISPLAY] on the [CAMERA MENU2] Menu (*) 130) or [VCR MENU2] Menu (*) 134), or by repeatedly pressing the [DISPLAY] Button on the Remote Controller (*) 98), the Counter Display Mode can be changed in the order shown in the above illustrations (1)-4).

- (1) Tape Counter Indication
- ② Tape Counter Indication with activated Memory Stop Indication
- (3) Time Code Indication
- (4) No Indication

(In this mode, only the Tape Run Indications, Warning/ Alarm Indications, Date/Time Indications, Programme AE Mode Indications, Manual Focus Mode Indications, White Balance Mode Indications, and Zoom Magnification Indication can be displayed.)



中 文 / .

爾索引 (→ 60)

INDEX: 在錄製索引信號中,[INDEX]指示會閃爍幾

秒鐘。

尋影號碼 (→ 64)

S1: 該字符表示從目前的場景至要播放場景之前

的場景數。

⑩程序AE狀態 (→ 68)

程序 AE 具有下列設定:

M.

運動狀態

00 :

素描特寫狀態

弱光狀態

⑩白色平衡狀態 (→80)

白色平衡狀態將提供下列可能的設定:

: 25-

室內狀態

(在熒光燈下拍攝時)

-\\- :

室外狀態

N2/

鎖定狀態

上次手動調節的白色平衡設定(→82)

當攝錄影機處於自動狀態時, 上述 3 種指示都不會出現。

②手動聚焦 (→84)

如果您選擇了手動聚焦狀態,會出現[MF](手動聚焦)指示。

當攝錄影機處於自動聚焦狀態時,則不會出現該指示。

⑥風聲減弱[WIND CUT]

如果您將[CAMERA MENU2]菜單上的[WIND CUT]設置在[ON]時,會顯示[WIND CUT]指示。

ENGLISH

(f) Index (→ 60)

INDEX:

The [INDEX] Indication flashes for a few seconds while an index signal is being

recorded.

Search Number (→ 64)

S1:

The figure indicates which number of scene ahead from the present scene is to be played back.

be played baok.

Programme AE Mode (→ 68)
 The Programme AE Function offers the following

settings:

· 13.

Sports Mode Portrait Mode

2

Low Light Mode

® White Balance Mode (→ 80)

The White Balance Mode offers the following possible settings:

: Indoor Mode

(recording under incandescent lamp)

★: Outdoor Mode

 \mathbb{Z}^n : Last manually adjusted White Balance setting

(→ 82)

When the Movie Camera is in the Auto Mode, none of the above 3 indications are displayed.

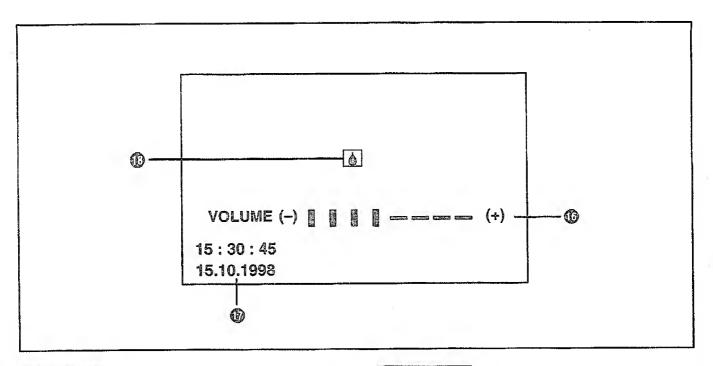
Manual Focus (→ 84)

If you select the Manual Focus Mode, the [MF] Indication is displayed.

When the Movie Camera is in the Auto Mode, this indication is not displayed.

Wind Noise Reduction [WIND CUT]

If you set [WIND CUT] on the [CAMERA MENU2] Menu to [ON], the [WIND CUT] Indication is displayed.



4. 文

6 音量 (→ 44)

用該指示可調節來自內藏揚聲器的播放音量。 在[VCR](錄放影機) 燈亮起之下,請按住[PUSH](下按) 環,直至[VOLUME](音量) 指示出現為止。然後轉動 [PUSH]環,調節音量。

⑩日期和時間(→ 44)

時間指示為24小時制。

⑩警告/報警

當下列指示亮起或閃爍時,讀確認攝錄影機的狀況。

□ 已經發生冷凝。 (→ 146)

插入錄影帶的保險滑頭關閉著(設置在

[SAVE]) °

未插入錄影帶。

图: 內藏電池已耗盡。 (→ 138)

❷: 影像磁頭很髒。

面END: 拍攝中,錄影帶已走到結尾。REMOTE: 遙控器狀態選錯了。 (→ 108)

PRINTER ERROR: 在打印機未連接至攝錄影機的情

况下,您若將[VCR MENU2]菜單上的[AUTOPRINT](自動打印) 設置在[ON]時,會出現該指示。

ENGLISH

3 Sound Volume (→ 44)

Use this indication to adjust the volume of the playback sound from the built-in speaker.

With the [VCR] Lamp lit, keep the [PUSH] Dial pressed until the [VOLUME] Indication appears. Then turn the [PUSH] Dial to adjust the volume.

Date and Time (→ 44)

The time is indicated in the 24-hour system.

Warning/Alarm

When any of the following indications lights or flashes, confirm the condition of the Movie Camera.

Condensation has occurred. (→ 146)

趣: The erasure prevention slider of the

inserted cassette is closed (set to

[SAVE]).

No cassette is inserted.

🕲: The built-in battery is discharged.

(→ 138)

The video heads are dirty.

END: During recording, the tape has reached its

end.

REMOTE: Wrong Remote Controller Mode is

selected. (→ 108)

PRINTER

ERROR: This indication is displayed if you set

[AUTOPRINT] on the [VCR MENU2] Menu to [ON] when no printer is connected to the Movie Camera.

申 文

要求服務之前(問答集)

電源

Q1: 攝錄影機電源不能打開。

A1: 是否三正確定連接了電池或交流轉接器?請確認通接 情況。(→16)

Q2: 攝錄影機自動關閉。

A2: 如果您讓攝錄影機處於拍攝暫停狀態超過6分鐘時, 本機會自動切斷電源,以保護錄影帶和節省電池電力。(→30)

Q3: 攝錄影機很快關閉電源。

A3-1: 電池是否耗盡?當薪餘電池電力指示閃爍或出現 [□□]指示時,説明電池已經耗盡。請給電池充電 或插入充足電的電池。 (→ 18,168)

A3-2: 是否已形成了冷凝?如果將攝錄影機從冷地方帶到暖地方時,內部可能會發生冷凝。在此情況下,攝錄影機會自動關閉,且除了取出磁帶之外,將無法進行其它操作。請等待,直至冷凝指示消失為止。 (→146)

電池

Q1: 電池很快耗盡。

A1-1: 電池充電是否充足?請進行充電,直至交流轉接器上的所有3個充電燈都亮起為止。 (→ 18)

A1-2: 是否在溫度極低的地方使用電池?環境溫度對電池的 性能有很大的影響。在寒冷的地方,其操作時間會縮 短。 (→ 150)

A1-3: 電池是否已到達其使用壽命?電池的使用壽命是有限的。它取決於電池的使用方法,但是當進行了正確的充電之後,在普通的使用中,其操作時間也很短時, 說明電池已經到達其使用壽命。

Q2: 不能進行電池充電。

A2: 岩直流輸入纜線被連接至AC轉接器時,將無法進行 充電。請拔掉直流輸入纜線。

ENGLISH:

Before Requesting Service (Problems & Solutions)

Power Supply

P1: The Movie Camera does not turn on.

S1: Is the Battery or the AC Adaptor connected correctly? Confirm the connection. (-> 16)

P2: The Movie Camera has turned off automatically.

S2: If you leave the Movie Camera in the Recording Pause Mode for more than 6 minutes, it automatically switches off to protect the tape and to conserve battery power. (-> 30)

P3: The Movie Camera quickly turns off.

S3-2: Has condensation formed? If the Movie Camera is brought from a cold to a warm place, condensation may form inside. In this case, the Movie Camera automatically switches off and no operation can be performed except taking out the cassette. Wait until the Condensation Indication disappears.

(*\infty 146)

Battery

P1: The Battery discharges quickly.

S1-1: Is the Battery fully charged? Charge it until all3 Charge Lamps on the AC Adaptor light. (→ 18)

S1-2: Are you using the Battery in a place where the temperature is very low? The ambient temperature greatly influences the Battery's performance. Its operation time becomes shorter in a cold place.

(*\imp 150)

S1-3: Has the Battery reached the end of its service life?

The service life of the Battery is limited. It depends on the way the Battery is used, but when the operation time even after proper charging is too short for normal use, the service life of the Battery has reached its end.

P2: The Battery cannot be charged.

S2: If the DC Input Cable is connected to the AC Adaptor, charging is not possible. Disconnect the DC Input Cable.

105 7 TVE 12

普诵拍摄

- Q1:即使攝錄影機已經得到供電和正確地插入了錄影帶, 也不能開始拍攝。
- A1-1: 錄影帶的保險滑頭是否打開著?如果它是打開的(設置在[SAVE]),則無法開始把握。(→ 22)
- A1-2: 錄影帶是否到達其結尾?請插入新的錄影帶。 (→ 22)
- A1-3: 攝錄影機是否打開? (→ 30)
- A1-4: [POWER]開關是否被設置在[CAMERA](攝錄影機)? 當其被設置在[VCR](錄放影機)時,將無法進行拍 **盗。 (→ 30)**
- A1-5: 是否出現了冷凝指示[▲]?當內部形成冷凝時,除了取出磁帶之外,將無法進行其它操作。請等待,直至冷凝指示消失為止。(→146)

其它拍攝

- Q1: 液晶顯示監視器/電子尋像器上的圖像突然保持靜止 幾秒鐘。
- A1: 您是否按了[PHOTO SHOT](拍照) 鈕?如果按了 [PHOTO SHOT]鈕·將拍攝約7秒鏈的靜止圖像。 約
 - 7秒鐘後,攝錄影機將返回拍攝暫停狀態。(→38)
- Q2: 自動聚焦功能不能工作。
- A2-1: 是否選擇了手動聚焦狀態?如果您選擇了自動聚焦狀態,則會自動進行聚焦調節。 (→84)
- A2-2: 目標物和拍攝狀況是否適合自動聚焦狀態?對於某種 類型的目標物和拍攝狀況,自動聚焦功能將無法正常 工作。在此情況下,請使用手動聚焦狀態來調節聚 焦。 (→84)

編輯

- Q1: 不能進行音頻拷貝。
- A1-1: 錄影帶的保險滑頭是否打開着?如果它是打開的(設置在[SAVE]),則無法進行編輯。 (→22)
- A1-2: 您是否正在編輯用LP狀態拍攝的錄影帶部分?由於 LP狀態下拍攝的磁跡窄於磁頭,所以無法進行音頻 转貝。 (→ 24·94)

M=1(G=1S)

Normal Recording

- P1: Recording cannot be started even though the Movie Camera is supplied with power and the cassette is inserted correctly.
- S1-1: Is the erasure prevention slider of the cassette open? If it is open (set to [SAVE]), recording is not possible. (→ 22)
- S1-2: Has the tape reached its end? Insert a new cassette. (→ 22)
- \$1-3: Is the Movie Camera turned on? (→ 30)
- S1-4: Is the [POWER] Switch set to [CAMERA]? When it is set to [VCR], recording is not possible. (→ 30)
- S1-5: Is the Condensation Indication [] displayed?
 When condensation has formed, no functions except taking out the cassette can be operated.
 Wait until the Condensation Indication disappears.
 (>> 146)

Other Recording

- P1: The picture on the LCD Monitor/in the Finder suddenly stands still for a few seconds.
- S1: Did you press the [PHOTO SHOT] Button? If you press the [PHOTO SHOT] Button, a still picture is recorded for approximately 7 seconds. After approximately 7 seconds, the Movie Camera switches back to the Recording Pause Mode.
 (→ 38)
- P2: The Auto Focus Function does not work.
- S2-1: Is the Manual Focus Mode selected? If you select the Auto Focus Mode, the focus is adjusted automatically. (→ 84)
- S2-2: Is the subject or recording situation suitable for the Auto Focus Mode? The Auto Focus Function does not work correctly for some kinds of subjects and recording situations. In this case, use the Manual Focus Mode to adjust the focus. (→ 84)

Editing

- P1: Audio dubbing cannot be performed.
- S1-1: Is the erasure prevention slider of the cassette open? If it is open (set to [SAVE]), editing is not possible. (→ 22)
- S1-2: Are you trying to edit parts of the tape recorded in the LP Mode? As the tracks recorded in the LP Mode are narrower than the heads, audio dubbing is not possible. (→ 24, 94)

" 中 · 文

指示

Q1: 時間編碼不當。

A1: 在反向慢動作放影中,時間編碼指示的計數器可能不 穩,然高,這並非功能失常。

Q2: 剩餘磁帶時間指示消失。

A2: 如果您在拍照狀態下拍攝了靜上圖像,剩餘磁帶時間 指示將暫時消失。然而,如果您將攝錄影機切換至普 通拍攝狀態時,它將再次出現。

Q3: 剩餘磁帶時間指示與實際剩餘磁帶時間不一致。

A3-1: 如果連續拍攝的場景短於15秒時,剩餘磁帶時間將 無法正確表示。

A3-2:剩餘磁帶時間指示表示的剩餘時間,可能會比實際剩餘時間要短2、3分鐘。

放影 (圖像)

Q1: 按放影[≥]鈕時,未出現播放的圖像。

A1: [POWER]開關是否被設置在[VCR](錄放影機)? 當其 被設置在[CAMERA](攝錄影機)時,將無法操作放 影功能。 (→ 44)

Q2: 在快進尋影、倒帶尋影或慢動作放影中, 圖像上出現 了條紋狀雜訊。

A2: 此現象為數位影像系統的特徵。並非功能失常。 (→ 46)

Q3: 本人想在電視機上播放圖像。

A3: 如果您將輸出端子箱[AV ONE TOUCH STATION]安 裝在攝錄影機上時,使可將攝錄影機連接至電視機。 (→52)

Q4: 攝錄影機已正確地連接至電視機,但不出現播放的圖 像。

A4: 然是否在電視機上選擇了"影像輸入"?請仔細閱讀電視機的使用説明書,並選擇與所連接使用的輸入插孔相配的頻道。

Q5: 播放的圖像不清晰。

A5: 攝錄影機上的影像磁頭是否很髒?如果磁頭很髒,則 無法播放出清晰的圖像。

ENGLISH

Indications

P1: The Time Code becomes incorrect.

S1: In the Slow Motion Playback Mode in reverse direction, the counter of the Time Code Indication may not be stable, however, this is not a malfunction.

P2: The Remaining Tape Time Indication disappears.

S2: If you record a still picture in the Photoshot Mode, the Remaining Tape Time Indication disappears temporarily. However, if you switch the Movie Camera over to the Normal Recording Mode, it appears again.

P3: The Remaining Tape Time Indication does not match the actual remaining tape time.

S3-1: If scenes of less than 15 seconds are recorded successively, the remaining tape time is not indicated correctly.

S3-2: The Remaining Tape Time Indication may show a remaining tape time that is 2–3 minutes shorter than the actual remaining tape time.

Playback (Picture)

P1: No playback picture is reproduced when pressing the Play Button [▶].

S1: Is the [POWER] Switch set to [VCR]? When it is set to [CAMERA], no playback function can be operated. (

44)

P2: Mosaic-like patterns appear in the picture during Cue, Review or Slow Motion Playback.

S2: This phenomenon is a characteristic of the digital video system. This is not a malfunction. (→ 46)

P3: I want to play back the picture on a TV.

S3: If you attach the Output Terminal Box [AV ONE TOUCH STATION] to the Movie Camera, you can connect the Movie Camera to a TV. (→ 52)

P4: The Movie Camera is correctly connect to a TV, but no playback picture is reproduced.

S4: Did you select "Video Input" on the TV? Carefully read the operating instructions for your TV and select the channel that matches the input sockets used for connection.

P5: The playback picture is not reproduced clearly.

S5: Are the video heads on the Movie Camera dirty? If the video heads are dirty, the picture cannot be played back clearly.

放影(聲音)

Q1: 攝錄影機的内藏揚聲器發不出聲音。

A1: 音量設定是否太低?放影中、請按住(PUSH)環、直 至(VOLUME)!音量、指示出現為止。然後轉動 (PUSH)環、調節營量。(→44)

Q2: 一起播放不同的聚音。

A2: [VCR MENU1]菜單上的[12bit AUDIO](12 位音頻) 被設置在[MIX](混合)。因此,原來的聲音和用音頻 拷貝功能所拷貝的聲音將被一起播放。也可分別維行 播放。 (→96)

Q3: 進行音頻拷貝時抹消了原來的聲音。

A3: 如果您在以[16位]狀態 (→ 94) 下拍攤的錄影帶上進 行音頻拷貝時,原來的聲音將被抹消。如果您想保留 原來的聲音時,必須在原來的拍攝中選擇[12位]狀 態。

Q4: 不能播放聲音。

A4-1: 您是否正在描放一盒在[CAMERA MENU2]菜單的 [AUDIO REC](音頻拷貝)被設置在[12bit]時所錄 製 的錄影帶?在比情況下,須將[VCR MENU2]菜單上的[12bit AUDIO]設置在[ST1](→96)。

A4-2: 是否已啟動了變返尋影功能?請按放影鈕[▶],取消 變速轉影功能 (→ 46)。

其它

Q1: 不能取出錄影帶。

A1: 攝錄影機是否通電?交流轉接器的連接是否王確?或電池插入是否恰當?取出錄影帶時,攝錄影機必須通電,然而,不必將[POWER]開關設置在[CAMERA]或[VCR]。

A1-2: 安裝的電池可能已經耗盡。請換上已充電的電池。

Q2: 除取出錄影帶之外,不能進行其它操作。

Q3: 遥控器不工作。

A3-1: 遙控器中的鈕扣式電池是否耗盡?如果您在靠近攝錄 影機上的遙控感應器附近進行使用,而遙控器仍無法 工作,説明鈕扣式電池已經耗盡。請將其更新。 (→106)

A3-2: 是否選擇了正確的遙控器狀態?如果攝錄影機菜單上的[REMOTE] (遙控) 設定和遙控器所選擇的狀態不配時,將不可能用遙控器操作攝錄影機,並會出現 [REMOTE]指示。(→108)

NENGLISH .

Playback (Sound)

P1: No sound is played back from the Movie Camera's built-in speaker.

S1: Is the volume set too low? During playback, keep the [PUSH] Dial pressed until the [VOLUME] Indication appears. Then turn the [PUSH] Dial to adjust the volume. (→ 44)

P2: Different sounds are played back together.

S2: [12bit AUDIO] on the [VCR MENU1] Menu is set to [MIX]. Therefore, the original sound and the sound dubbed with audio dubbing are played back together. It is also possible to play them back individually. (-> 96)

P3: The original sound was erased by performing audio dubbing.

S3: If you perform audio dubbing on a recording made in the [16bit] Mode (→ 94), the original sound is erased. If you want to keep the original sound, be sure to select the [12bit] Mode for the original recording.

P4: No playback sound is reproduced.

S4-1: Are you playing back a cassette that was recorded with [AUDIO REC] on the [CAMERA MENU2] Menu set to [12bit]? In this case, make sure that [12bit AUDIO] on the [VCR MENU2] Menu is set to [ST1] (→ 96).

S4-2: Is the Variable Speed Search Function activated? Press the Play Button [▶] to cancel the Variable Speed Search Function (→ 46).

Others

P1: The cassette cannot be taken out.

S1-1: Is the Movie Camera supplied with power? Is the AC Adaptor correctly connected or the Battery correctly attached? To remove the cassette, the Movie Camera must be supplied with power, however, it is not necessary to set the [POWER] Switch to [CAMERA] or [VCR].

S1-2: The attached Battery may be discharged. Replace it with a charged Battery.

P2: No operation except taking out the cassette can be performed.

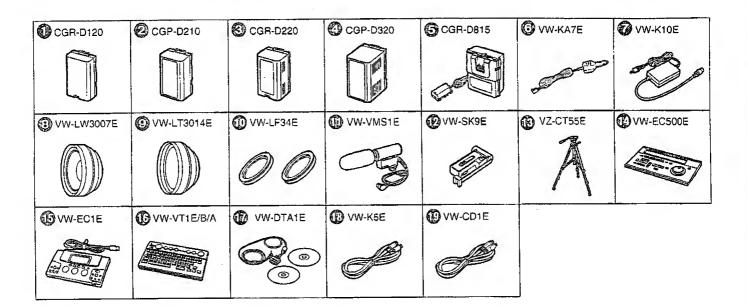
S2: Is the Condensation Indication [] displayed? If condensation has formed inside the Movie Camera, it automatically switches off and prevents all operations except taking out the cassette. Wait until the Condensation Indication disappears.

(*) 146)

P3: The Remote Controller does not work.

S3-1: Is the button-type battery in the Remote Controller exhausted? If the Remote Controller does not work when you use it near the Remote Controller Sensor on the Movie Camera, the button-type battery is exhausted. Replace it with a new battery. (→ 106)

S3-2: Is the correct Remote Controller Mode selected? If the Movie Camera's setting for [REMOTE] on the Menu and the mode selected on the Remote Controller are not matched, operating the Movie Camera with the Remote Controller is not possible and the [REMOTE] Indication is displayed. (→ 108)



選購附件

- 電池組 (鋰電池)
- ② 電池組(鋰電池)
- ❸ 電池組(鋰電池)
- △ 電池組(鋰電池)
- 6 電池組 (鉀電池)
- ⑥ 汽車轉接器纜線
- ⋒ 5 針同步纜線
- ⑤ 廣角鏡頭
- ② 長焦鏡頭
- ⑩ 濾光鏡組件
- 立體聲變聲麥克風
- @ 座轉接器
- 18 三角架
- @ 編輯控制器
- **⑤** 編輯控制器
- 6 影像字幕編寫器
- ₲ 個人微電腦連接套件
- 10 編輯纜線
- 19 DV (數位影像) 纜線
- ◆ 有些國家可能購買不到某些附件。

ENGLISH

Optional Accessories

- Battery Pack (Lithium)
- 2 Battery Pack (Lithium)
- Battery Pack (Lithium)
- Battery Pack (Lithium)
- Battery Pack (Lithium)
- Car Adaptor Cord
- 75-Pin Synchro Cord
- Wide Conversion Lens
- Tele Conversion Lens
- Tilter Kit
- Stereo Zoom Microphone
- Shoe Adaptor
- (B) Tripod
- Editing Controller
- (13) Editing Controller
- 16 Video Titler
- Personal Computer Connection Kit
- 13 Edit Cable
- 1 DV Cable
- Some accessories are not available in some countries.

規格

數位攝錄影機

您的安全信息

電源:

查施 7.9V. 7.2V

電力消耗:

Sur var same

拍攝主4.3W(使用電子專家器時)

5.6W (使用液晶顯示監視器時)

拍攝規格:

微型DV (用戶使用數位影像SD格式)

使用錄影帶:

6.35m數位影像錄影帶

轉錄/播放時間:

SP: 60分鐘

LP: 90分鐘

(使用DVM60磁帶時)

影像

拍攝系統:

數位元件

雪視制式:

CCIR: 625線,50帧PAL彩色信號

音頻

轉錄系統:

PCM數位轉錄

16位 (48kHz/雙聲道) 12位 (32kHz/四聲道)

輸入感應度/阻抗:

麥克風輸入 (M3) - 70dBV/ (5.6干歐)

圖像感應器:

1/3英寸CCD圖像感應器

鏡頭:

自動光圈·F1.4·聚焦長度: 4.7 - 47mm·

微距 (全範圍AF)

濾光鏡直徑:

 $34 \, \text{mm} / 30.5 \, \text{mm}$ 10:1動力變焦

變焦:

3.8英寸液晶顯示監視器

監視器:

立體聲

麥克風 揚聲器:

單個圖形楊聲器 ϕ 20mm

標準亮度:

1.400 lx

最低要求亮度:

1lx (數位超高靈敏度狀態)

影像輸出電平:

1.0Vp-p+75歐姆

S-影像輸出電平:

Y (亮度信號) 輸出: 1.0Vp-p+75歐姆

C(色彩信號)輸出: 0.3Vp-p:75歐姆

音頻輸出電平:

316mV·600歐姆

數位靜止圖像:

數位靜止圖像輸出,控制信號輸入/輸出

(轉換率: 最大115kbps)

數位接口:

DV (數位影像) 輸入/輸出 (i,LINK + 4

尺寸:

約58 (寬) × 97 (高) × 142 (深) mm

重量:

約590克 (電池組除外)

約670克 (使用CGR-D120和DVM60磁

操作温度:

0°C - 40°C

操作濕度:

10% - 80%

交流轉接器

您的安全信息

電源:

AC100 - 240V 50/60Hz

電力消耗:

20W

直流輸出:

DC7.9V+9W

(攝錄影機操作時) DC8.4V 1.2A (電池組充電師)

Samuel (Company)

尺寸:

102 (夏) × 50 (高) × 79 (深) 📠

重量:

約230萬

重量和尺寸為近似值。

·魏格若首變更,然不男能選知。

ENGLISH ...

Specifications

Digital Video Camera

Information for your safety

Power Source:

DC 7.9/7.2 V

Power Consumption: Recording 4.3 W

(When using Finder)

5.6 W (When using LCD Monitor)

Recording Format:

Playback Time:

Mini DV (Consumer-use Digital Video

SD Format)

Tape Used: Recording/

6.35 mm digital video tape

SP: 60 min. LP: 90 min. (with DVM60)

Video

Recording System:

Digital Component

Television System:

CCIR: 625 lines, 50 fields PAL colour

signal

Audlo

Recording System:

PCM Digital Recording 16 bit (48 kHz/2ch),

12 bit (32 kHz/4ch)

Input Sensitivity/

Impedance: Image Sensor: MIC IN (M3) -70 dBV/5.6 kohm 1/3-inch CCD Image Sensor Auto Iris, F1.4, Focal Length; 4.7-47 mm, Macro (Full Range AF)

Filter Diameter:

34 mm/30.5 mm 10:1 Power Zoom 3.8-inch LCD

Stereo

Monitor: Microphone: Speaker:

Lens:

Zoom:

1 round speaker Ø 20 mm 1,400 lx

Standard Illumination: Minimum Required

Illumination:

1 lx (Digital Gain-up Mode) 1.0 Vp-p, 75 ohm

Video Output Level: S-Video Output Level:

Y Output: 1.0 Vp-p, 75 ohm C Output: 0.3 Vp-p, 75 ohm

Audio Output Level:

316 mV, 600 ohm

Digital Still Picture:

Digital Still Picture Output, Control

Signal Input/Output

(Transfer rate: max. 115 kbps) DV Input/Output (i.LINK, 4pin)

Digital Interface: Dimensions: Weight:

Approx. 58 (W)×97 (H)×142 (D) mm Approx. 590 g (without Battery) Approx. 670 g (with CGR-D120 and

DVM60)

Operating

Temperature: Operating Humidity: 0°C-40°C 10%-80%

AC Adaptor

Information for your safety

Power Source:

AC 100-240 V, 50/60 Hz

Power Consumption: 20W

DC 7.9 V, 9 W DC Output:

(Movie Camera Operation) DC 8.4 V, 1.2 A (Battery Charging)

Dimensions:

102 (W)×50 (H)×79 (D) mm

Weight: Approx. 230 g

Weight and dimensions shown are approximate. Specifications are subject to change without notice.